

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 : Search time 1.6517 Seconds  
(without alignments)  
1220.271 Million cell updates/sec

Title: US-09-331-631A-34

Perfect score: 59  
Sequence: 1 XXXCXXXXXXXXXXXXXXXXXXX 27

Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: \*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep: \*  
2: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	59	100.0	41	5 PCT-US96-01720-7	Sequence 7, Appli
2	59	100.0	45	3 US-08-900-230-43	Sequence 44, Appli
3	59	100.0	45	3 US-08-900-230-44	Sequence 43, Appli
4	59	100.0	45	3 US-08-900-230-52	Sequence 52, Appli
5	59	100.0	46	3 US-08-900-230-40	Sequence 40, Appli
6	59	100.0	47	5 PCT-US96-08811-2	Sequence 2, Appli
7	59	100.0	50	3 US-08-836-686B-1	Sequence 4, Appli
8	59	100.0	50	3 US-08-836-686B-4	Sequence 3, Appli
9	59	100.0	50	3 US-08-836-686B-5	Sequence 5, Appli
10	59	100.0	50	3 US-08-836-686B-6	Sequence 6, Appli
11	59	100.0	50	3 US-08-900-230-8	Sequence 8, Appli
12	59	100.0	51	3 US-08-836-686B-2	Sequence 1, Appli
13	59	100.0	55	2 US-08-369-829A-1	Sequence 1, Appli
14	59	100.0	61	2 US-08-785-530-1	Sequence 1, Appli
15	59	100.0	61	2 US-08-785-530-3	Sequence 1, Appli
16	59	100.0	61	2 US-08-785-530-4	Sequence 4, Appli
17	59	100.0	61	2 US-08-785-530-5	Sequence 4, Appli
18	59	100.0	61	2 US-08-785-530-6	Sequence 5, Appli
19	59	100.0	61	2 US-09-123-850-1	Sequence 3, Appli
20	59	100.0	61	2 US-09-123-850-3	Sequence 1, Appli
21	59	100.0	61	2 US-09-123-850-4	Sequence 4, Appli
22	59	100.0	61	2 US-09-123-850-5	Sequence 5, Appli
23	59	100.0	61	2 US-09-123-850-6	Sequence 6, Appli
24	59	100.0	61	3 US-09-230-180-2	Sequence 2, Appli
25	59	100.0	61	4 US-09-919-039-31	Sequence 31, Appli
26	59	100.0	61	4 US-09-919-039-195	Sequence 195, App
27	59	100.0	61	4 US-09-919-039-245	Sequence 245, App

28	59	100.0	61	4 US-09-919-039-272	Sequence 272, App
29	59	100.0	61	4 US-09-949-016-6675	Sequence 6675, App
30	59	100.0	62	3 US-07-780-717C-5	Sequence 5, Appli
31	59	100.0	62	4 US-09-270-767-34836	Sequence 34836, A
32	59	100.0	62	4 US-09-270-767-50053	Sequence 50053, A
33	59	100.0	68	1 US-07-696-051B-1	Sequence 1, Appli
34	59	100.0	68	1 US-07-924-063A-1	Sequence 1, Appli
35	59	100.0	68	1 US-08-138-340B-2	Sequence 2, Appli
36	59	100.0	69	4 US-09-248-766A-24565	Sequence 24565, A
37	59	100.0	70	3 US-09-188-930-131	Sequence 131, App
38	59	100.0	70	4 US-09-312-283C-131	Sequence 131, App
39	59	100.0	74	4 US-09-819-058-2	Sequence 2, Appli
40	59	100.0	79	4 US-09-270-767-38435	Sequence 38435, A
41	59	100.0	79	4 US-09-270-767-53652	Sequence 53652, A
42	59	100.0	82	4 US-09-252-991A-22767	Sequence 22767, A
43	59	100.0	83	4 US-09-270-767-37272	Sequence 37272, A
44	59	100.0	83	4 US-09-270-767-52489	Sequence 52489, A
45	59	100.0	84	3 US-09-230-180-5	Sequence 5, Appli

## ALIGNMENTS

```

RESULT 1
PCT-US96-01720-7
; Sequence 7, Application PC/TUS9601720
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MODIFIED-AFFINITY STREPTAVIDIN
; NUMBER OF SEQUENCES: 11
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/01720
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/387,055
; FILING DATE: 09-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Parmelee, Steven W.
; REGISTRATION NUMBER: 31,990
; REFERENCE/DOCKET NUMBER: 16336-5PC
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 41 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US96-01720-7

Query Match 100.0%; Score 59; DB 5; Length 41;
Best Local Similarity 14.8%; Pred. No. 2.3e+02;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Cy 1 XXXCXXXXXXXXXXXXXXXXXXX 27
Db 13 CXTGGGACACACCGAAGCTAACGCTT 39

RESULT 2
US-08-900-230-43
; Sequence 43, Application US/08900230
; Patent No. 6329197
; GENERAL INFORMATION:
; APPLICANT: Bard, Jonathan A.
; TITLE OF INVENTION: DNA ENCODING GALVANN GALR3 RECEPTORS AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 59

```

## CORRESPONDENCE ADDRESS:

ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-278-0400  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: linear  
HYPOTHEITICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-43

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 45;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX 27  
DB 10 TCGCCTTAGCCGCGCACCTACGCGCT 36

## RESULT 3

US-08-900-230-44  
Sequence 44, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:

APPLICANT: Baird, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM  
TELECOMMUNICATION INFORMATION:

TELEPHONE: 212-278-0400

TELEFAX: 212-391-0525

INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:

LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: linear  
HYPOTHEITICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-44

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 45;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX 27  
DB 10 TCGCCTTAGCCGCGCACCTACGCGCT 36

## RESULT 4

US-08-900-230-52  
Sequence 52, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:

APPLICANT: Baird, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANN GALR3 RECEPTORS AND  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-278-0400  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 52:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 45 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: linear  
HYPOTHEITICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-52

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 45;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX 27  
DB 3 CCACAGGCACTGCGCAGCGCCCGCACAC 29

RESULT 5  
US-08-900-230-40  
Sequence 40, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:  
APPLICANT: Bard, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANIN GALR3 RECEPTORS AND  
TITLE OF INVENTION: USES THEREOF  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Cooper & Dunham LLP  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentln Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900,230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JPM/ADM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-278-0400  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 40:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 46 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE:  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-40

Query Match 100.0%; Score 59; DB 3; Length 46;  
Best Local Similarity 14.8%; Pred. No. 2.6e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXCXXCXXXXXXXXXXXXCXXX 27  
Db 8 GCACTGCCACAGCCCTCAGCTCCTG 34

RESULT 6  
PCT-US96-08811-2  
Sequence 2, Application PC/TUS9608811  
GENERAL INFORMATION:  
APPLICANT: VERNON, Leo P., Rael, Eppie D. and  
APPLICANT: GASANOV, Sardar E.  
TITLE OF INVENTION: Pyruvate thionin containing  
TITLE OF INVENTION: Immunotoxins and immunotoxin-like compounds  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MADSON & METCALF  
STREET: 950 First Interstate Building, 170 South  
STREET: Main Street  
CITY: Salt Lake City  
STATE: Utah  
COUNTRY: USA  
ZIP: 84101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage  
COMPUTER: IBM

OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORDPERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/08811  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: L. Craig Metcalf  
REGISTRATION NUMBER: 31,398  
REFERENCE/DOCKET NUMBER: 1771.2.1a  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (801) 537-1700  
TELEFAX: (801) 537-1799  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 47  
TYPE: amino acids  
STRANDEDNESS: single  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
HYPOTHEICAL:  
ANTI-SENSE: no  
ORIGINAL SOURCE:  
ORGANISM: Pyruvate pubera  
TISSUE TYPE: leaves and nuts  
PUBLICATION INFORMATION:  
AUTHORS: Vernon, Leo P., Evelt, Gary E., Zeikus,  
AUTHORS: Regina D. and Gray, William R.  
TITLE: A Toxic Thionin from Pyruvate pubera:  
TITLE: Purification, properties, and Amino Acid Sequence  
JOURNAL: Archives of Biochemistry and Biophysics  
VOLUME: 238  
ISSUE: 1  
PAGES: 18-29  
DATE: April 1995

PCT-US96-08811-2

Query Match 100.0%; Score 59; DB 5; Length 47;  
Best Local Similarity 14.8%; Pred. No. 2.7e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Oy 1 XXXCXXCXXXXXXXXXXXXCXXX 27  
Db 9 ARNCYVCRLPGRISREICAKCDCKI 35

RESULT 7  
US-08-836-686B-3  
Sequence 3, Application US/0883686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
TITLE OF INVENTION: biologic active substances  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
PRIOR FILING DATE: 1995-10-27  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentln Ver. 2.1  
SEQ ID NO 3  
LENGTH: 50  
TYPE: PRT  
ORGANISM: Limnatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or polypeptide-like

OTHER INFORMATION: substance from Limmatis nilotica  
US-08-836-686B-3

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 50;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX  
DB 24 PIRCRITCPKGFVNDGCELPCTCKQ 50

## RESULT 9

US-08-836-686B-4  
Sequence 4, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 4  
LENGTH: 50  
TYPE: PRT  
ORGANISM: Limmatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or peptide-like substance  
US-08-836-686B-4

Query Match 100.0%; Score 59; DB 3; Length 50;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX  
DB 24 PIRCRITCPKGFVNDGCELPCTCKQ 50

## RESULT 9

US-08-836-686B-5  
Sequence 5, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 5  
LENGTH: 50  
TYPE: PRT

ORGANISM: Limmatis nilotica

FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or peptide-like substance  
US-08-836-686B-5

## Query Match

Best Local Similarity 100.0%; Score 59; DB 3; Length 50;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX  
DB 24 PIRCRITCPKGFVNDGCELPCTCKQ 50

## RESULT 10

US-08-836-686B-6  
Sequence 6, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voerman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 6  
LENGTH: 50  
TYPE: PRT  
ORGANISM: Limmatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)..(50)  
OTHER INFORMATION: part of a proteinaceous or peptide-like substance  
US-08-836-686B-6

Query Match 100.0%; Score 59; DB 3; Length 50;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

QY 1 XXXXXXXXXX  
DB 24 PIRCRITCPKGFVNDGCELPCTCKQ 50

## RESULT 11

US-08-900-230-8  
Sequence 8, Application US/08900230  
Patent No. 6329197  
GENERAL INFORMATION:  
APPLICANT: Bard, Jonathan A.  
TITLE OF INVENTION: DNA ENCODING GALANIN GALR3 RECEPTORS AND  
NUMBER OF SEQUENCES: 59  
CORRESPONDENCE ADDRESS:  
STREET: 1185 Avenue of The Americas  
CITY: New York  
STATE: New York  
COUNTRY: U.S.A.  
ZIP: 11036  
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/900.230  
FILING DATE: 23-JUL-1997  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 52241-C/JPW/ADM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-278-0400  
TELEFAX: 212-391-0525  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 50 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE:  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
US-08-900-230-8

Query Match 100.0%; Score 59; DB 3; Length 50;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXX 27  
Db 8 CACCACTGTCATCTCAACTGGG 34

RESULT 12  
US-08-836-686B-2  
Sequence 2, Application US/08836686B  
Patent No. 6239106  
GENERAL INFORMATION:  
APPLICANT: Voetman, Gerard  
TITLE OF INVENTION: A novel family of protease inhibitors, and other  
FILE REFERENCE: 70140  
CURRENT APPLICATION NUMBER: US/08/836,686B  
CURRENT FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: EPO 94117053.2  
PRIOR FILING DATE: 1994-10-28  
PRIOR APPLICATION NUMBER: EPO 95103637.5  
PRIOR FILING DATE: 1995-03-14  
PRIOR APPLICATION NUMBER: PCT/EP95/04223  
PRIOR FILING DATE: 1995-10-27  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 2  
LENGTH: 51  
TYPE: PRT  
ORGANISM: Limnatis nilotica  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)-(30)  
OTHER INFORMATION: part of a proteinaceous or polypeptide-like  
OTHER INFORMATION: substance from Limnatis nilotica  
US-08-836-686B-2

Query Match 100.0%; Score 59; DB 3; Length 51;  
Best Local Similarity 14.8%; Pred. No. 2.9e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXX 27  
Db 24 PIRCLIFCPNGFAVDENGELPCSKH 50

RESULT 13  
US-08-369-829A-1  
Sequence 1, Application US/08369829A  
Patent No. 5861377  
GENERAL INFORMATION:  
APPLICANT: Hans Filtz  
APPLICANT: Christian Sommerhoff  
APPLICANT: Jutta Heim  
TITLE OF INVENTION: No. 5861377el Inhibitor  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 5861377artis Corporation  
STREET: 59 Route 10  
CITY: East Hanover  
STATE: New Jersey  
COUNTRY: US  
ZIP: 07936  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/369,829A  
FILING DATE: 6-JAN-95  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: EPO 94810006.0  
FILING DATE: 7-JAN-94  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 5861377ak, Henry P.  
REGISTRATION NUMBER: 33200  
REFERENCE/DOCKET NUMBER: 4-19942/A/DIV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (908) 277-5110  
TELEFAX: (908) 277-4306  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 55 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Protein  
LOCATION: 1..55  
OTHER INFORMATION: //label= hivustasin  
US-08-369-829A-1

Query Match 100.0%; Score 59; DB 2; Length 55;  
Best Local Similarity 14.8%; Pred. No. 3.2e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXX 27  
Db 26 EVHCRIRCKYGLKXDENGCEYPCSKA 52

RESULT 14  
US-08-785-530-1  
Sequence 1, Application US/08785530  
Patent No. 5814480  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Goli, Surya K.  
TITLE OF INVENTION: A NOVEL HUMAN METALLOTHIONEIN  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA

```

: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/785,530
: FILING DATE: Herewith
: CLASSIFICATION: 514
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: TELEX:
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 61 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: Consensus
: CLONE: 977891
: US-08-785-530-1

```

```

Query Match      100.0%; Score 59; DB 2; Length 61;
Best Local Similarity 18.5%; Pred. No. 3.5e+02;
Matches 5; Conservative 22; Mismatches 0; Indels 0; Gaps 0;
QY 1 XXXCXXCXXXXXXXXXXXXXXX 27
Db 26 CTXCKKCCSCCPVGCACAKAGCVCCKG 52

```

```

RESULT 15
US-08-785-530-3
: Sequence 3, Application US/08785530
: Patent No. 5814480
: GENERAL INFORMATION:
: APPLICANT: Hillman, Jennifer L.
: TITLE OF INVENTION: A NOVEL HUMAN METALLOTHIONINE
: NUMBER OF SEQUENCES: 6
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Incyte Pharmaceuticals, Inc.
: STREET: 3174 Porter Drive
: CITY: Palo Alto
: STATE: CA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/785,530
: FILING DATE: Herewith
: CLASSIFICATION: 514
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0194 US

```

```

: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: TELEX:
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 61 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: GenBank
: CLONE: 386962
: US-08-785-530-3

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```

Query Match      100.0%; Score 59; DB 2; Length 61;
Best Local Similarity 14.8%; Pred. No. 3.5e+02;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
QY 1 XXXCXXCXXXXXXXXXXXXXXX 27
Db 26 CTXCKKCCSCCPVGCACAKAGCVCCKG 52

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Search completed: February 15, 2005, 18:03:04  
Job time : 2.6517 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 4.4889 Seconds  
(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-34  
Perfect score: 59  
Sequence: 1 XXXCXXCXXXXXXXXXXXXCXXCXXCXX 27

Scoring table: BIOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications\_AA:\*  
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2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep:\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:\*  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*  
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13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep:\*  
17: /cgn2\_6/ptodata/1/pubpaa/US10E\_NEW\_PUB.pep:\*  
18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep:\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	59	100.0	27	9	US-09-331-631A-31
2	59	100.0	27	9	US-09-331-631A-34
3	59	100.0	27	14	US-10-147-095-31
4	59	100.0	27	14	US-10-147-095-34
5	59	100.0	29	9	US-09-883-727A-121
6	59	100.0	30	9	US-09-883-727A-53
7	59	100.0	30	9	US-09-883-727A-60
8	59	100.0	30	9	US-09-883-727A-71
9	59	100.0	30	9	US-09-883-727A-74
10	59	100.0	30	9	US-09-883-727A-77
11	59	100.0	30	9	US-09-883-727A-85
12	59	100.0	31	16	US-10-380-927-24
13	59	100.0	38	15	US-10-424-599-178866

14	59	100.0	38	16	US-10-380-927-26	Sequence 26, App1
15	59	100.0	41	15	US-10-074-978A-408	Sequence 408, App
16	59	100.0	42	15	US-10-074-978A-406	Sequence 406, App
17	59	100.0	44	15	US-10-424-599-202469	Sequence 202469,
18	59	100.0	45	8	US-08-900-230-43	Sequence 43, App1
19	59	100.0	45	8	US-08-900-230-44	Sequence 44, App1
20	59	100.0	45	8	US-08-900-230-52	Sequence 52, App1
21	59	100.0	45	15	US-10-424-599-159072	Sequence 159072,
22	59	100.0	45	15	US-10-424-599-213253	Sequence 213253,
23	59	100.0	46	8	US-08-900-230-40	Sequence 40, App1
24	59	100.0	47	14	US-10-029-386-33022	Sequence 33022, A
25	59	100.0	50	8	US-08-900-230-8	Sequence 8, App1
26	59	100.0	50	15	US-10-424-599-238220	Sequence 238220,
27	59	100.0	54	10	US-09-764-891-3402	Sequence 3402, Ap
28	59	100.0	54	14	US-10-091-572-284	Sequence 284, App
29	59	100.0	61	9	US-09-981-353-115	Sequence 115, App
30	59	100.0	61	9	US-09-981-353-120	Sequence 120, App
31	59	100.0	61	10	US-09-919-039-31	Sequence 31, App1
32	59	100.0	61	10	US-09-919-039-195	Sequence 195, App
33	59	100.0	61	10	US-09-919-039-245	Sequence 245, App
34	59	100.0	61	10	US-09-919-039-245	Sequence 245, App
35	59	100.0	61	10	US-09-919-039-245	Sequence 245, App
36	59	100.0	61	15	US-10-170-385-239	Sequence 239, App
37	59	100.0	61	15	US-10-170-385-241	Sequence 241, App
38	59	100.0	61	15	US-10-170-385-243	Sequence 243, App
39	59	100.0	61	15	US-10-170-385-265	Sequence 265, App
40	59	100.0	61	15	US-10-291-172-302	Sequence 302, App
41	59	100.0	61	15	US-10-424-599-188190	Sequence 188190,
42	59	100.0	61	15	US-10-424-599-208272	Sequence 208272,
43	59	100.0	61	15	US-10-221-778-302	Sequence 302, App
44	59	100.0	61	16	US-10-755-889-445	Sequence 445, App
45	59	100.0	61	16	US-10-788-792-179	Sequence 179, App
			62	15	US-10-285-876-5	Sequence 5, App1

ALIGNMENTS

RESULT 1  
US-09-331-631A-31  
Sequence 31, Application US/09331631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcuse, John Paul  
APPLICANT: Goulter, Kenneth C.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331.631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 31  
LENGTH: 27  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
OTHER INFORMATION: wherein X is any amino acid.  
US-09-331-631A-31

Query Match 100.0%; Score 59; DB 9; Length 27;  
Best Local Similarity 92.6%; Pred. No. 3.3e+02;  
Matches 25; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
DY 1 XXXCXXCXXXXXXXXXXXXCXXCXXCXX 27  
DB 1 CXXCXXCXXXXXXXXXXXXCXXCXXCXX 27

## RESULT 2

US-09-331-631A-34  
; Sequence 34, Application US/09331631A  
; Patent No. US20020168392A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 34  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides,  
; OTHER INFORMATION: wherein X is any amino acid and the first and  
US-09-331-631A-34

## Query Match

Best Local Similarity 100.0%; Score 59; DB 9; Length 27;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
Db 1 XXXXXXXXXXXXXXXXXXXXXXXX 27

## RESULT 3

US-10-147-095-31  
; Sequence 31, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; PRIOR FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 31  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid.  
US-10-147-095-31

Query Match 100.0%; Score 59; DB 14; Length 27;  
Best Local Similarity 92.6%; Pred. No. 3.3e+02;  
Matches 25; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
Db 1 CXXCXXCXXCXXCXXCXXCXXCXXC 27

## RESULT 4

US-10-147-095-34  
; Sequence 34, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; PRIOR FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 34  
; LENGTH: 27  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides,  
; OTHER INFORMATION: wherein X is any amino acid and the first and  
US-10-147-095-34

## Query Match

Best Local Similarity 100.0%; Score 59; DB 14; Length 27;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27  
Db 1 XXXXXXXXXXXXXXXXXXXXXXXX 27

## RESULT 5

US-09-883-727A-121  
; Sequence 121, Application US/09883727A  
; Patent No. US20020102256A1  
; GENERAL INFORMATION:  
; APPLICANT: West, Robert R.  
; APPLICANT: Shepard, Paul O.  
; APPLICANT: Fox, Brian  
; TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of  
; FILE REFERENCE: 00-33  
; CURRENT APPLICATION NUMBER: US/09/883,727A  
; PRIOR FILING DATE: 2001-09-18  
; NUMBER OF SEQ ID NOS: 140  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 121  
; LENGTH: 29  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: C1s catalytic site-directed moiety  
US-09-883-727A-121

Query Match 100.0%; Score 59; DB 9; Length 29;  
Best Local Similarity 14.8%; Pred. No. 3.5e+02;  
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy 1 XXXXXXXXXXXXXXXXXXXXXXXX 27



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/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 77
/ LENGTH: 30
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: C1s catalytic site-directed motley
US-09-883-727A-77
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Query Match
Best Local Similarity 100.0%; Score 59; DB 9; Length 30;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 XXXCXXCXXXXXXXXXXCXXCXX 27
Db 4 GFKCRIGCTYGFRTDKKGCBAFCTSN 30
```

```
RESULT 11
US-09-883-727A-85
/ Sequence 85, Application US/09883727A
/ Patent NO. US20020102256A1
/ GENERAL INFORMATION:
/ APPLICANT: West, Robert R.
/ APPLICANT: Sheppard, Paul O.
/ APPLICANT: Fox, Brian
/ TITLE OF INVENTION: Peptide and Polypeptide Inhibitors of
/ FILE REFERENCE: 00-33
/ CURRENT APPLICATION NUMBER: US/09/883,727A
/ CURRENT FILING DATE: 2001-09-18
/ NUMBER OF SEQ ID NOS: 140
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 85
/ LENGTH: 30
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: C1s catalytic site-directed motley
US-09-883-727A-85
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```
Query Match
Best Local Similarity 100.0%; Score 59; DB 9; Length 30;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 XXXCXXCXXXXXXXXXXCXXCXX 27
Db 4 GFKCRIGCTYGFRTDKKGCBAFCTSN 30
```

```
RESULT 12
US-10-380-927-24
/ Sequence 24, Application US/10380927
/ Publication NO. US20040110165A1
/ GENERAL INFORMATION:
/ APPLICANT: Larry W. Kwak
/ APPLICANT: Arya Biragyn
/ TITLE OF INVENTION: VIRAL CHEMOKINE-ANTIGEN FUSION PROTEINS
/ FILE REFERENCE: 14014.0381U2
/ CURRENT APPLICATION NUMBER: US/10/380,927
/ CURRENT FILING DATE: 2003-12-04
/ PRIOR APPLICATION NUMBER: PCT/US01/29075
/ PRIOR FILING DATE: 2001-09-17
/ PRIOR APPLICATION NUMBER: 60/233,067
/ NUMBER OF SEQ ID NOS: 38
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 24
/ LENGTH: 31
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence = Note
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/ OTHER INFORMATION: Synthetic Construct
US-10-380-927-24
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Query Match
Best Local Similarity 100.0%; Score 59; DB 16; Length 31;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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QY 1 XXXCXXCXXXXXXXXXXCXXCXX 27
Db 3 AAGCTTCACCATGAGACTCTCTGCT 29
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RESULT 13
US-10-424-599-178866
/ Sequence 178866, Application US/10424599
/ Publication NO. US20040031072A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 178866
/ LENGTH: 38
/ TYPE: PRT
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_132532C.1.pep
US-10-424-599-178866
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Query Match
Best Local Similarity 100.0%; Score 59; DB 15; Length 38;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```
QY 1 XXXCXXCXXXXXXXXXXCXXCXX 27
Db 9 YCCRRKCTCVMPBELCCKRLCFYR 35
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```
RESULT 14
US-10-380-927-26
/ Sequence 26, Application US/10380927
/ Publication NO. US20040110165A1
/ GENERAL INFORMATION:
/ APPLICANT: Larry W. Kwak
/ APPLICANT: Arya Biragyn
/ TITLE OF INVENTION: VIRAL CHEMOKINE-ANTIGEN FUSION PROTEINS
/ FILE REFERENCE: 14014.0381U2
/ CURRENT APPLICATION NUMBER: US/10/380,927
/ CURRENT FILING DATE: 2003-12-04
/ PRIOR APPLICATION NUMBER: PCT/US01/29075
/ PRIOR FILING DATE: 2001-09-17
/ PRIOR APPLICATION NUMBER: 60/233,067
/ NUMBER OF SEQ ID NOS: 38
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 26
/ LENGTH: 38
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence = Note
US-10-380-927-26
```

```
Query Match
Best Local Similarity 100.0%; Score 59; DB 16; Length 38;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;
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```

Qy      1 XXXXXXXXXXXXXXXXXXXXXXXX 27
Db      3 AAGCTTCACCATGCCCCGTCACG 29

RESULT 15
US-10-074-978A-408
; Sequence 408, Application US/10074978A
; Publication No. US20040010119A1
; GENERAL INFORMATION:
; APPLICANT: Leite, Mario
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Guo, Xiaojia (Sasha)
; APPLICANT: Fernandes, Elma
; APPLICANT: Li, Li
; APPLICANT: Kekuda, Rameesh
; APPLICANT: Liu, Xiahong
; APPLICANT: Caeman, Stracie
; APPLICANT: Boldog, Ferenc
; APPLICANT: Patturajan, Meera
; APPLICANT: Blalock, Angela
; APPLICANT: Ballinger, Robert
; APPLICANT: Verneet, Corine
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Malysankar, Uriel M
; APPLICANT: Gusev, Vladimir
; APPLICANT: Rastelli, Luca
; APPLICANT: Mezes, Peter S
; APPLICANT: Ellerman, Karen
; APPLICANT: Heyes, Melvin P
; APPLICANT: Herrman, John
; APPLICANT: Pena, Carol E A
; APPLICANT: Shinkels, Richard A
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Moore, No. US20040010119A11le
; APPLICANT: Shenoy, Sureesh
; APPLICANT: Edinger, Shlomit
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, Dave
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glenda
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-269
; CURRENT APPLICATION NUMBER: US/10/074,978A
; PRIOR FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: 60/268,221
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/335,109
; PRIOR FILING DATE: 2001-10-31
; PRIOR APPLICATION NUMBER: 60/312,284
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: 60/268,496
; PRIOR FILING DATE: 2001-02-13
; PRIOR APPLICATION NUMBER: 60/276,703
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/330,293
; PRIOR FILING DATE: 2001-10-18
; PRIOR APPLICATION NUMBER: 60/322,127
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/280,899
; PRIOR FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 60/310,797
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/268,646
; PRIOR FILING DATE: 2001-02-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 408
; LENGTH: 41
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-10-074-978A-408

Query Match      100.0%; Score 59; DB 15; Length 41;
Best Local Similarity 14.8%; Pred. No. 5e+02;
Matches 4; Conservative 23; Mismatches 0; Indels 0; Gaps 0;

Qy      1 XXXXXXXXXXXXXXXXXXXXXXXX 27
Db      6 MSVCSTCGANGNQKRTSCGFACTATE 32

Search completed: February 15, 2005, 18:33:55
Job time : 5.4889 secs

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RESULT 1
US-08-810-131A-6
; Sequence 6, Application US/08810131A
; Patent No. C269144
; GENERAL INFORMATION:
; APPLICANT: Karin, Michael
; APPLICANT: Didonato, Joseph A.
; APPLICANT: Rothwarf, David M.
; APPLICANT: Hayakawa, Makio
; APPLICANT: Zandi, Ebrahim
; TITLE OF INVENTION: I-kappa-B kinase and Methods of Using
; TITLE OF INVENTION: Same
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentln Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/810,131A
; FILING DATE: 25-FEB-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-UD 2408
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-810-131A-6

Query Match 100.0%; Score 54; DB 3; Length 24;
Best Local Similarity 18.2%; Pred.No. 1.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0
1 CXXXXXXXXXXXXXXXXCXXXC 22
|||||:|||||:|||||:|||||

```

Db 2 CAACATGCTTGAGCTCCC 23

## RESULT 2

US-09-643-657-36

Sequence 36, Application US/09643657

Patent No. 6642024

GENERAL INFORMATION:

APPLICANT: Diane Pennica

TITLE OF INVENTION: GUANYLATE-BINDING PROTEIN

NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/643,657

FILING DATE: 17-Aug-2000

CLASSIFICATION: &lt;Unknown&gt;

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/015,089A

FILING DATE: 29-Jan-1998

ATTORNEY/AGENT INFORMATION:

NAME: Hasak, Janet E.

REGISTRATION NUMBER: 28,616

REFERENCE/DOCKET NUMBER: P1056

TELEPHONE: 650/225-1896

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 36:

SEQUENCE CHARACTERISTICS:

LENGTH: 24 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

SEQUENCE DESCRIPTION: SEQ ID NO: 36:

US-09-643-657-36

Query Match

Best Local Similarity 100.0%; Score 54; DB 4; Length 24;

Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXCXXC 22

Db 2 CGGACACGGCGAAGTACATCC 23

RESULT 3

US-09-506-978-5

Sequence 5, Application US/09506978

Patent No. 6780416

GENERAL INFORMATION:

APPLICANT: Sperini, Francois

TITLE OF INVENTION: NOVEL BEE VENOM POLYPEPTIDES AND METHODS OF USE THEREOF

FILE REFERENCE: 18519-001

CURRENT APPLICATION NUMBER: US/09/506,978

NUMBER OF SEQ ID NOS: 5

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 5

LENGTH: 35

TYPE: PRT

ORGANISM: Artificial Sequence

FEATURES:

OTHER INFORMATION: Description of Artificial Sequence: CYSTEINE

OTHER INFORMATION: SPACING MOTIF

OTHER INFORMATION: Where any X can be any amino acid.

US-09-506-978-5

Query Match

Best Local Similarity 100.0%; Score 54; DB 4; Length 35;

Matches 21; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXCXXC 22

Db 10 CXXXCXXXXXXXXXXXXCXXC 31

## RESULT 4

US-08-761-248B-11

Sequence 11, Application US/08761248B

Patent No. 5958735

GENERAL INFORMATION:

APPLICANT: ROWLEY, DAVID R.

TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH

NUMBER OF SEQUENCES: 15

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jenkins &amp; Gilchrist

STREET: 1100 Louisiana, Suite 1800

CITY: Houston

STATE: TX

COUNTRY: USA

ZIP: 77002

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/761,248B

FILING DATE: 06-DEC-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/008,348

FILING DATE: 07-DEC-1995

ATTORNEY/AGENT INFORMATION:

NAME: Turley, Charles P

REGISTRATION NUMBER: 35,723

REFERENCE/DOCKET NUMBER: 34012.6

TELECOMMUNICATION INFORMATION:

TELEPHONE: (713)9513310

TELEFAX: (713)9513314

TEXT:

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 38 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-761-248B-11

Query Match

Best Local Similarity 100.0%; Score 54; DB 2; Length 38;

Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXCXXC 22

Db 10 CTCECVSDSCADNLKCSAGC 31

RESULT 5

US-08-036-555B-40

Sequence 40, Application US/08036555B

Patent No. 5530109

GENERAL INFORMATION:

APPLICANT: Goodheart, Andrew; Stroobant, Paul;

APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;

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; APPLICANT: Chen, Maio Su; Hiles, Ian
; TITLE OF INVENTION: Glial Mitogenic Factors, Their
; TITLE OF INVENTION: Preparation and Use
; NUMBER OF SEQUENCES: 184
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/036,555B
; FILING DATE: 24-MAR-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/965,173
; FILING DATE: 23-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/940,389
; FILING DATE: 03-SEP-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/907,138
; FILING DATE: 30-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/863,703
; FILING DATE: 03-APRIL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.K. 91 07566.3
; FILING DATE: 10-APRIL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Tsai, Christine H.
; REGISTRATION NUMBER: 34,266
; REFERENCE/DOCKET NUMBER: LUD 5250.4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 39
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-036-555B-40

Query Match          100.0%; Score 54; DB 1; Length 39;
Best Local Similarity 18.2%; Pred. No. 2.4e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXYXXXXXXXXXXCXXC 22
Db      13 CACRCAGAGGCTTCTCCTTC 34

RESULT 6
US-08-469-569-40
; Sequence 40, Application US/08469569
; Patent No. 5606032
; GENERAL INFORMATION:
; APPLICANT: Goodearl, Andrew; Stroobant, Paul;
; APPLICANT: Mungheer, Luisa; Waterfield, Michael; Marchionl, Mark;
; APPLICANT: Chen, Maio Su; Hiles, Ian
; TITLE OF INVENTION: Glial Mitogenic Factors, Their
; TITLE OF INVENTION: Preparation and Use
; NUMBER OF SEQUENCES: 184
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
```

```

; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/469,569
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/036,555
; FILING DATE: 24-MAR-1993
; APPLICATION NUMBER: 07/965,173
; FILING DATE: 23-OCT-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/940,389
; FILING DATE: 03-SEP-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/907,138
; FILING DATE: 30-JUN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/863,703
; FILING DATE: 03-APRIL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.K. 91 07566.3
; FILING DATE: 10-APRIL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Tsai, Christine H.
; REGISTRATION NUMBER: 34,266
; REFERENCE/DOCKET NUMBER: LUD 5250.4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 39
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; US-08-469-569-40

Query Match          100.0%; Score 54; DB 1; Length 39;
Best Local Similarity 18.2%; Pred. No. 2.4e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXYXXXXXXXXXXCXXC 22
Db      13 CACRCAGAGGCTTCTCCTTC 34

RESULT 7
US-08-390-882A-1
; Sequence 1, Application US/08390882A
; Patent No. 5688764
; GENERAL INFORMATION:
; APPLICANT: Kral, Robert M. Jr.; Krapcho, Karen; Johnson, Janice
; TITLE OF INVENTION: Insecticidal Peptides from Spider Venom
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MADSON & METCALF
; STREET: 950 FIRST INTERSTATE BUILDING
; STREET: 170 SOUTH MAIN STREET
; CITY: SALT LAKE CITY
; STATE: UTAH
; COUNTRY: USA
; ZIP: 84101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM
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Oy 1 CXXXXXXXXXXXXXXXXCXXC 22  
Db 15 CCGCGCFCWCTCYLRDPCSKC 36

## RESULT 10

US-08-249-322A-40  
; Sequence 40, Application US/08249322A  
; Patent No. 5716930  
; GENERAL INFORMATION:  
; APPLICANT: Goodearl, Andrew; Stroobant, Paul;  
; APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;  
; APPLICANT: Chen, Maio Su; Hiles, Ian  
; TITLE OF INVENTION: Glial Mitogenic Factors, Their  
; NUMBER OF SEQUENCES: 184  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Felfe & Lynch  
; STREET: 805 Third Avenue  
; CITY: New York City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10022  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
; COMPUTER: IBM  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/249,322A  
; FILING DATE: 26-MAY-1994  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/036,555  
; FILING DATE: 24-MAR-1993  
; PRIOR APPLICATION NUMBER: 07/965,173  
; FILING DATE: 23-OCT-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/940,389  
; FILING DATE: 03-SEP-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/907,138  
; FILING DATE: 30-JUN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/863,703  
; FILING DATE: 03-APRIL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: U.K. 91 07566.3  
; FILING DATE: 10-APRIL-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Tsai, Christine H.  
; REGISTRATION NUMBER: 34,266  
; REFERENCE/DOCKET NUMBER: LUD 250.4  
; TELEPHONE: (212) 688-9200  
; TELEFAX: (212) 838-3884  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 39  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
US-08-249-322A-40

Query Match 100.0%; Score 54; DB 1; Length 39;

Best Local Similarity 18.2%; Pred.No. 2.4e+02;  
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CXXXXXXXXXXXXXXXXCXXC 22  
Db 13 CACRCAGAAAGCTCTTCTCCTTC 34

RESULT 11  
US-08-469-526A-40  
; Sequence 40, Application US/08469526A  
; Patent No. 5792849  
; GENERAL INFORMATION:  
; APPLICANT: Goodearl, Andrew  
; APPLICANT: Stroobant, Paul  
; APPLICANT: Minghetti, Luisa  
; APPLICANT: Waterfield, Michael  
; APPLICANT: Marchioni, Mark  
; APPLICANT: Chen, Maio Su  
; APPLICANT: Hiles, Ian  
; TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
; NUMBER OF SEQUENCES: 187  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Clark & Elbing LLP  
; STREET: 176 Federal Street  
; CITY: Boston  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02110  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: Fastseq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/469,526A  
; FILING DATE: 06 June 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/036,555  
; FILING DATE: 24-MAR-1993  
; APPLICATION NUMBER: 07/965,173  
; FILING DATE: 23-OCT-1992  
; APPLICATION NUMBER: 07/940,389  
; FILING DATE: 03-SEP-1992  
; APPLICATION NUMBER: 07/907,138  
; FILING DATE: 03-JUN-1992  
; APPLICATION NUMBER: 07/863,703  
; FILING DATE: 03-APRIL-1992  
; APPLICATION NUMBER: U.K. 91 07566.3  
; FILING DATE: 10-APR-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bieker-Brady, Kristina  
; REGISTRATION NUMBER: 39,109  
; REFERENCE/DOCKET NUMBER: 04585/00200A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-428-7045  
; TELEFAX: 617-428-7045  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 39  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
US-08-469-526A-40

Query Match 100.0%; Score 54; DB 1; Length 39;

Best Local Similarity 18.2%; Pred.No. 2.4e+02;  
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

Oy 1 CXXXXXXXXXXXXXXXXCXXC 22  
Db 13 CACRCAGAAAGCTCTTCTCCTTC 34

## RESULT 12

US-08-734-591A-40  
; Sequence 40, Application US/08734591A

```

US-08-469-660-40
/ Sequence 40, Application US/08469660
/ Patent No. 5876973
/ GENERAL INFORMATION:
/ APPLICANT: Gaymie, David I.; Marchionni, Mark,
/ APPLICANT: McBurney, Robert N.
/ TITLE OF INVENTION: INHIBITORS OF CELL PROLIFERATION,
/ TITLE OF INVENTION: THEIR PREPARATION AND USE
/ NUMBER OF SEQUENCES: 184
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Fish & Richardson
/ STREET: 225 Franklin Street
/ CITY: Boston
/ STATE: Massachusetts
/ ZIP: 0211-2804
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
/ COMPUTER: IBM
/ OPERATING SYSTEM: PC-DOS
/ SOFTWARE: Wordperfect
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/469,660
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/011,396
/ FILING DATE: 29-JAN-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/984,085
/ FILING DATE: 01-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/951,747
/ FILING DATE: 25-SEP-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/927,337
/ FILING DATE: 10-AUG-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Clark, Paul T.
/ REGISTRATION NUMBER: 30,162
/ REFERENCE/DOCKET NUMBER: 04585/017004
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 542-5070
/ TELEFAX: 200154
/ INFORMATION FOR SEQ ID NO: 40:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 39
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: linear
US-08-469-660-40

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Matches	4;	Conservative	18;	Mismatches	0.
					7-13-67

Matches 4; Conservative 18; Mismatches 0. Total = 2.4e+02;

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QY      1 CXXXXXXXXXXXXXXXXCXXXC 22
        |::|:::|:::|:::|:::|
Db      13 CACRCAGAAGCTCTTCTTC 34
```

RESULT 14  
US-08-735-021-40

sequence 40, Application US/08735021B  
Patent No. 6194377

GENERAL INFORMATION:

APPLICANT: GOODEARL, ANDREW

APPLICANT: MINGHETTI, LUISA

APPLICANT: WATERFIELD, MICHAEL

APPLICANT: CHEN, MARIO S.

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1      APPLICATION NUMBER: 07/965,173
2      FILING DATE: 23-OCT-1992
3      PRIOR APPLICATION DATA:
4      APPLICATION NUMBER: 07/940,389
5      FILING DATE: 03-SEP-1992
6      PRIOR APPLICATION DATA:
7      APPLICATION NUMBER: 07/907,138
8      FILING DATE: 30-JUN-1992
9      PRIOR APPLICATION DATA:
10     APPLICATION NUMBER: 07/863,703
11     FILING DATE: 03-APR-1992
12     PRIOR APPLICATION DATA:
13     APPLICATION NUMBER: UK 91 07566.3
14     FILING DATE: 10-APR-1991
15     ATTORNEY/AGENT INFORMATION:
16     NAME: Bleker-Brady, Kristina
17     REGISTRATION NUMBER: 39,109
18     REFERENCE/DOCKET NUMBER: 04585/002000J
19     TELECOMMUNICATION INFORMATION:
20     TELEPHONE: (617) 428-0200
21     TELEFAX: (617) 428-7045
22     TEXES:
23     INFORMATION FOR SEQ ID NO: 40:
24     SEQUENCE CHARACTERISTICS:
25     LENGTH: 39
26     TYPE: amino acid
27     STRANDEDNESS:
28     TOPOLOGY: linear
29
30     US-08-734-664A-40

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Query Match      100.0%; Score 54; DB 3; Length 33;
Best Local Similarity 18.2%; Pred. No. 2.4e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0

Qy      1 CXXXXXXXXXXXXXXXXCXXC 22
         |::|::|::|::|::|::|::|
Db      13 CACRCAGAGGfTTCCTTC 34

Search completed: February 15, 2005, 18:03:05
Job time : 2.34583 secs

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GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 3.65762 Seconds  
(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-39

Perfect score: 54  
Sequence: 1 CXXXXXXXXXXXXXXXXCXXC 22

Scoring table: BLOSUM62PX  
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	ID	Description
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2	54	100.0	22 14 US-10-147-095-39	Sequence 36, App1
3	54	100.0	26 15 US-10-381-112-225	Sequence 225, App
4	54	100.0	26 15 US-10-381-112-551	Sequence 551, App
5	54	100.0	26 15 US-10-381-112-552	Sequence 552, App
6	54	100.0	26 15 US-10-381-112-553	Sequence 553, App
7	54	100.0	26 15 US-10-381-112-554	Sequence 554, App
8	54	100.0	26 15 US-10-381-112-555	Sequence 555, App
9	54	100.0	26 16 US-10-714-353-59	Sequence 59, App
10	54	100.0	27 14 US-10-097-065-580	Sequence 580, App
11	54	100.0	27 15 US-10-372-876-580	Sequence 580, App
12	54	100.0	29 9 US-09-331-631A-33	Sequence 33, App1
13	54	100.0	29 9 US-09-331-631A-36	Sequence 36, App1

14	54	100.0	29 14 US-10-147-095-33	Sequence 33, App1
15	54	100.0	29 14 US-10-147-095-36	Sequence 36, App1
16	54	100.0	29 14 US-10-332-765-16	Sequence 16, App1
17	54	100.0	33 14 US-10-252-734-37	Sequence 37, App1
18	54	100.0	35 14 US-10-174-151-5	Sequence 5, App1
19	54	100.0	35 15 US-10-204-145-5	Sequence 5, App1
20	54	100.0	36 14 US-10-321-807-132	Sequence 132, App
21	54	100.0	36 16 US-10-321-807-132	Sequence 132, App
22	54	100.0	36 16 US-10-314-048A-132	Sequence 132, App
23	54	100.0	36 16 US-10-997-815-132	Sequence 132, App
24	54	100.0	38 14 US-10-092-771-30	Sequence 30, App1
25	54	100.0	38 14 US-10-252-340-11	Sequence 11, App1
26	54	100.0	39 8 US-08-736-019-40	Sequence 40, App1
27	54	100.0	39 14 US-10-092-771-32	Sequence 32, App1
28	54	100.0	39 14 US-10-195-730-172	Sequence 172, App
29	54	100.0	39 16 US-10-332-765-42	Sequence 42, App1
30	54	100.0	39 16 US-10-799-747-172	Sequence 172, App
31	54	100.0	42 14 US-10-252-340-15	Sequence 15, App1
32	54	100.0	42 16 US-10-437-863-176365	Sequence 176365, App1
33	54	100.0	43 14 US-10-252-340-13	Sequence 13, App1
34	54	100.0	44 14 US-10-252-340-12	Sequence 12, App1
35	54	100.0	45 8 US-08-900-230-7	Sequence 7, App1
36	54	100.0	45 8 US-08-900-230-11	Sequence 11, App1
37	54	100.0	45 8 US-08-900-230-15	Sequence 15, App1
38	54	100.0	45 8 US-08-900-230-52	Sequence 52, App1
39	54	100.0	45 8 US-08-900-230-53	Sequence 53, App1
40	54	100.0	45 15 US-10-424-599-159072	Sequence 159072, App1
41	54	100.0	46 8 US-08-900-230-40	Sequence 40, App1
42	54	100.0	47 14 US-10-029-386-33022	Sequence 33022, A
43	54	100.0	49 9 US-09-864-761-14921	Sequence 14921, A
44	54	100.0	49 15 US-10-424-599-173959	Sequence 173959, App1
45	54	100.0	50 15 US-10-424-599-162084	Sequence 162084, App1

## ALIGNMENTS

RESULT 1  
US-09-331-631A-39  
Sequence 39, Application US/09331631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331.631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 39  
LENGTH: 22  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
OTHER INFORMATION: wherein X is any amino acid.  
US-09-331-631A-39

Query Match 100.0%; Score 54; DB 9; Length 22;  
Best Local Similarity 100.0%; Pred. No. 4.8e+02;  
Matches 22; Conservative 0; Mismatches 0; Indels 0;

Qy 1 CXXXXXXXXXXXXXXXXCXXC 22  
Db 1 CXXXXXXXXXXXXXXXXCXXC 22

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RESULT 2
US-10-147-095-39
; Sequence 39, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1998-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 22
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides
US-10-147-095-39
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Query Match      100.0%; Score 54; DB 14; Length 22;
Best Local Similarity 100.0%; Pred. No. 4.8e+02;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      1 CXXXXXXXXXXXXXXXXCXXC 22

RESULT 3
US-10-381-112-225
; Sequence 225, Application US/10381112
; Publication No. US20040086942A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Nakamura, Gerald R.
; APPLICANT: Starovaanik, Mark E.
; APPLICANT: Starovaanik, Melissa A.
; TITLE OF INVENTION: IGE RECEPTOR ANTAGONISTS
; FILE REFERENCE: P1816R1
; CURRENT APPLICATION NUMBER: US/10/381,112
; CURRENT FILING DATE: 2003-10-27
; PRIOR APPLICATION NUMBER: US 60/278,540
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/235,353
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 595
; SEQ ID NO 225
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: IGE receptor binding peptide shown in Example 12, Table 9, IGE189
; NAME/KEY: MOD_RES
; LOCATION: 26
; OTHER INFORMATION: C-terminal amidation
US-10-381-112-225
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Query Match      100.0%; Score 54; DB 15; Length 26;
Best Local Similarity 18.2%; Pred. No. 5.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;
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QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      3 CPHFCYELDYEMDGQLCPDVC 24
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RESULT 4
US-10-381-112-551
; Sequence 551, Application US/10381112
; Publication No. US20040086942A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Nakamura, Gerald R.
; APPLICANT: Reynolds, Mark E.
; APPLICANT: Starovaanik, Melissa A.
; TITLE OF INVENTION: IGE RECEPTOR ANTAGONISTS
; FILE REFERENCE: P1816R1
; CURRENT APPLICATION NUMBER: US/10/381,112
; CURRENT FILING DATE: 2003-10-27
; PRIOR APPLICATION NUMBER: US 60/278,540
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/235,353
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 595
; SEQ ID NO 551
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence 719-11 shown in Figure 5
US-10-381-112-551
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Query Match      100.0%; Score 54; DB 15; Length 26;
Best Local Similarity 18.2%; Pred. No. 5.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      3 CPHFCYELDYEMDGQLCPDVC 24
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RESULT 5
US-10-381-112-552
; Sequence 552, Application US/10381112
; Publication No. US20040086942A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Nakamura, Gerald R.
; APPLICANT: Reynolds, Mark E.
; APPLICANT: Starovaanik, Melissa A.
; TITLE OF INVENTION: IGE RECEPTOR ANTAGONISTS
; FILE REFERENCE: P1816R1
; CURRENT APPLICATION NUMBER: US/10/381,112
; CURRENT FILING DATE: 2003-10-27
; PRIOR APPLICATION NUMBER: US 60/278,540
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: US 60/235,353
; PRIOR FILING DATE: 2000-09-26
; NUMBER OF SEQ ID NOS: 595
; SEQ ID NO 552
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial Sequence 719-13 shown in Figure 5
US-10-381-112-552
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Best Local Similarity 18.2%; Pred. No. 5.5e+02;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY      1 CXXXXXXXXXXXXXXXXCXXC 22
Db      3 CPHFCYELDYEMDGQLCPDVC 24
```

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QY      1 CXXXXXXXXXXXXXXXXC 22
        |::|:::|:::|:::|
Db      3 CPHFCYELDYEPDSVGLCPDVC 24
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Hand letter

RESULT 10  
US-10-097-065-580  
: Sequence 580. Application US/10097065

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; Publication No. US20030055236A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/097,065
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,053
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,064
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,054
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,008
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,365
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 580
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-065-580

Query Match
Best Local Similarity 100.0%; Score 54; DB 14; Length 27;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 22
DB 4 CPSCCLPSPCSCSRRCRCAPSC 25

RESULT 11
US-10-372-876-580
; Sequence 580, Application US/10372876
; Publication No. US20030204071A1
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A. et al.
; TITLE OF INVENTION: 110 Human Secreted Proteins
; FILE REFERENCE: P2021P1
; CURRENT APPLICATION NUMBER: US/10/372,876
; PRIOR FILING DATE: 2003-02-26
; PRIOR APPLICATION NUMBER: 09/334,595
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: PCT/US98/27059
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: 60/070,923
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,007
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,057
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,006

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; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 60/068,369
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,367
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,368
; PRIOR FILING DATE: 1997-12-19
; PRIOR APPLICATION NUMBER: 60/068,169
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 580
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-372-876-580

Query Match
Best Local Similarity 100.0%; Score 54; DB 15; Length 27;
Matches 4; Conservative 18; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 22
DB 4 CPSCCLPSPCSCSRRCRCAPSC 25

RESULT 12
US-09-331-631A-33
; Sequence 33, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Mannes, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 29
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides
US-09-331-631A-33

Query Match
Best Local Similarity 100.0%; Score 54; DB 9; Length 29;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 22
DB 4 CXXXCXXXXXXXXXXCXXC 25

RESULT 13
US-09-331-631A-36
; Sequence 36, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Mannes, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.

```

;; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
;; FILE REFERENCE: CULLN23.001APC  
;; CURRENT APPLICATION NUMBER: US/09/331,631A  
;; PRIOR FILING DATE: 1999-06-21  
;; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
;; PRIOR FILING DATE: 1997-12-22  
;; PRIOR APPLICATION NUMBER: AU PO 4275  
;; NUMBER OF SEQ ID NOS: 40  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 36  
;; LENGTH: 29  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
;; OTHER INFORMATION: wherein X is any amino acid and the first and last  
;; OTHER INFORMATION: X are phenylalanine or Tyrosine.  
US-09-331-631a-36

Query Match 100.0%; Score 54; DB 9; Length 29;  
Best Local Similarity 100.0%; Pred. No. 6e+02;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 22  
Db 4 CXXXCXXXXXXXXXXCXXC 25

RESULT 14  
US-10-147-095-33  
; Sequence 33, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CULLN23.001APC  
; CURRENT APPLICATION NUMBER: US/10/147,095  
; CURRENT FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US/09/331,631A  
; PRIOR FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 33  
; LENGTH: 29  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid.  
US-10-147-095-33

Query Match 100.0%; Score 54; DB 14; Length 29;  
Best Local Similarity 100.0%; Pred. No. 6e+02;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 22  
Db 4 CXXXCXXXXXXXXXXCXXC 25

RESULT 15  
US-10-147-095-36  
; Sequence 36, Application US/10147095  
; Publication No. US20030171274A1  
; GENERAL INFORMATION:

;; APPLICANT: Manners, John M.  
;; APPLICANT: Marcus, John Paul  
;; APPLICANT: Goulter, Kenneth C.  
;; APPLICANT: Green, Jodie L.  
;; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
;; FILE REFERENCE: CULLN23.001APC  
;; CURRENT APPLICATION NUMBER: US/10/147,095  
;; CURRENT FILING DATE: 2002-05-15  
;; PRIOR APPLICATION NUMBER: US/09/331,631A  
;; PRIOR FILING DATE: 1999-06-21  
;; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
;; PRIOR FILING DATE: 1997-12-22  
;; PRIOR APPLICATION NUMBER: AU PO 4275  
;; NUMBER OF SEQ ID NOS: 40  
;; SOFTWARE: FastSeq for Windows Version 3.0  
;; SEQ ID NO 36  
;; LENGTH: 29  
;; TYPE: PRT  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
;; OTHER INFORMATION: wherein X is any amino acid and the first and last  
;; OTHER INFORMATION: X are phenylalanine or Tyrosine.  
US-10-147-095-36

Query Match 100.0%; Score 54; DB 14; Length 29;  
Best Local Similarity 100.0%; Pred. No. 6e+02;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 22  
Db 4 CXXXCXXXXXXXXXXCXXC 25

Search completed: February 15, 2005, 18:33:56  
Job time : 3.65762 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 ; Search time 1.28466 Seconds  
(without alignments)  
1220.271 Million cell updates/sec

Title: US-09-331-631A-38

Sequence: 1 CXXXXXXXXXXXXXXXXC 21

Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfilest1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	24	1	US-08-036-555B-41
2	53	100.0	24	1	US-08-469-556A-41
3	53	100.0	24	1	US-08-249-322A-41
4	53	100.0	24	1	US-08-469-526A-41
5	53	100.0	24	2	US-08-734-591A-41
6	53	100.0	24	2	US-08-469-660-41
7	53	100.0	24	3	US-08-735-021-41
8	53	100.0	24	3	US-08-734-664A-41
9	53	100.0	24	4	US-09-643-657-35
10	53	100.0	24	5	PCT-US94-05083C-41
11	53	100.0	24	5	PCT-US95-06846A-41
12	53	100.0	30	4	US-09-270-767-43284
13	53	100.0	38	2	US-08-902-516-47
14	53	100.0	38	4	US-09-847-185-47
15	53	100.0	40	4	US-07-757-022B-8
16	53	100.0	41	4	US-07-757-022B-6
17	53	100.0	45	1	US-08-451-947-97
18	53	100.0	45	1	US-08-424-826A-97
19	53	100.0	45	3	US-08-928-694-97
20	53	100.0	45	3	US-08-900-230-12
21	53	100.0	45	3	US-08-900-230-14
22	53	100.0	45	4	US-08-450-842-97
23	53	100.0	45	4	US-08-451-390-97
24	53	100.0	45	5	PCT-US91-06950-97
25	53	100.0	47	1	US-08-451-947-93
26	53	100.0	47	1	US-08-451-947-94
27	53	100.0	47	1	US-08-451-947-95

28	53	100.0	47	1	US-08-451-947-96	Sequence 96, Appl
29	53	100.0	47	2	US-08-424-826A-93	Sequence 93, Appl
30	53	100.0	47	2	US-08-424-826A-94	Sequence 94, Appl
31	53	100.0	47	2	US-08-424-826A-95	Sequence 95, Appl
32	53	100.0	47	2	US-08-424-826A-96	Sequence 96, Appl
33	53	100.0	47	3	US-08-482-085B-91	Sequence 91, Appl
34	53	100.0	47	3	US-08-928-694-93	Sequence 93, Appl
35	53	100.0	47	3	US-08-928-694-94	Sequence 94, Appl
36	53	100.0	47	3	US-08-928-694-95	Sequence 95, Appl
37	53	100.0	47	3	US-08-928-694-96	Sequence 96, Appl
38	53	100.0	47	4	US-08-450-842-93	Sequence 93, Appl
39	53	100.0	47	4	US-08-450-842-94	Sequence 94, Appl
40	53	100.0	47	4	US-08-450-842-95	Sequence 95, Appl
41	53	100.0	47	4	US-08-450-842-96	Sequence 96, Appl
42	53	100.0	47	4	US-08-451-390-93	Sequence 93, Appl
43	53	100.0	47	4	US-08-451-390-94	Sequence 94, Appl
44	53	100.0	47	4	US-08-451-390-95	Sequence 95, Appl
45	53	100.0	47	4	US-08-451-390-96	Sequence 96, Appl

## ALIGNMENTS

RESULT 1  
US-08-036-555B-41  
Sequence 41, Application US/08036555B  
Patent No. 5530109  
GENERAL INFORMATION:  
APPLICANT: Goodearl, Andrew; Stroobant, Paul;  
APPLICANT: Minichetti, Luisa; Waterfield, Michael; Marchioni, Mark;  
APPLICANT: Chen, Miao Su; Hiles, Ian  
TITLE OF INVENTION: Glial Mitogenic Factors, Their  
PREPARATION AND USE  
NUMBER OF SEQUENCES: 184  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Felfe & Lynch  
STREET: 805 Third Avenue  
CITY: New York City  
STATE: New York  
COUNTRY: USA  
ZIP: 10022  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
COMPUTER: IBM  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/036,555B  
FILING DATE: 24-MAR-1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/965,173  
FILING DATE: 23-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/940,389  
FILING DATE: 03-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/907,138  
FILING DATE: 30-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/863,703  
FILING DATE: 03-APRIL-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: U.K. 91 07566.3  
FILING DATE: 10-APRIL-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Tsai, Christine H.  
REGISTRATION NUMBER: 34,266  
REFERENCE/DOCKET NUMBER: LUD 5250.4  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 688-9200  
TELEFAX: (212) 838-3884  
INFORMATION FOR SEQ ID NO: 41:

Query Match	100.0%;	Score 53;	DB 1;	Length 24;
Best Local Similarity	19.0%;	Pred. No. 1.3e+02;		
Matches	4;	Conservative	17;	Mismatches 0;
			Indels	0;
			Gaps	0;

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Qy      1 CXXXXXXXXXXXXXXXXCXXC 21
         |::|:::|:::|:::|
Db      4 CGCTCCTTCTCTGCCCCTC 24

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RESULT 3  
US-08-249-322A-41

APPENDIX

```

sequence 41, Application US/08249322A
Patent No. 5716930
GENERAL INFORMATION:
APPLICANT: Gooddearl, Andrew; Stroobant, Paul;
Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark
APPLICANT: Chen, Miao Su; Hiles, Ian

```

APPLICANT: Minguetti, Luisa; Waterfield, Michael; Marchioni, Mark;  
APPLICANT: Chen, Mao Su; Hiles, Ian  
TITLE OF INVENTION: Gli3 Mitogenic Factors, Their  
TITLE OR INVENTION

```

; TITLE OF INVENTION: Preparation and Use
; NUMBER OF SEQUENCES: 184
; CORRESPONDENCE ADDRESS:

```

ADDRESSEE: Felfe & Lynch  
STREET: 805 Third Avenue

CITY: New York City

COUNTRY: USA  
ZTP: 10033

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette 5

OPERATING SYS

CURRENT APPLICATION DATA:

FILING DATE: 26-MAY-1994

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/0

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PRIOR APPLICATION DATA:

FILING DATE: 23-OCT-1992

APPLICATION NUMBER: 07/9

PRIOR APPLICATION DATA: 07/01/2011  
APPLICATION NUMBER: 07/01/2011

FILED DATE: 30-JUN-1992  
PRIOR APPLICATION DATA:

FILING DATE: 03-APRIL-1991

APPLICATION NUMBER: U.K.

ATTORNEY/AGENT	INFORMATION:
NAME:	Tsai, Chai-shan

REGISTRATION NUMBER: 34,2  
REFERENCE/DOCKET NUMBER:

TELEPHONE: (212) 688-9200

INFORMATION FOR SEQ ID NO: 41

LENGTH: 24

STRANDEDNESS:  
TOPOLOGY: 1inear

THE  
JULY  
EVENING  
CITY  
OF  
NEW  
YORK

Best Local Similarity 19.0%;



QY 1 CXXXXXXXXXXXXXXXXC 21  
DB 4 CGCTCCTTCTTCTTGCCTTC 24

RESULT 6  
US-08-469-660-41  
Sequence 41, Application US/08469660  
Patent No. 5876973  
GENERAL INFORMATION:  
APPLICANT: Gwynne, David I.; Marchionni, Mark,  
APPLICANT: McBurney, Robert N.  
TITLE OF INVENTION: INHIBITORS OF CELL PROLIFERATION,  
TITLE OF INVENTION: THEIR PREPARATION AND USE  
NUMBER OF SEQUENCES: 184  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: Massachusetts  
ZIP: 0211-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
COMPUTER: IBM  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/469,660  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/011,396  
FILING DATE: 29-JAN-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/984,085  
FILING DATE: 01-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/951,747  
FILING DATE: 25-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/927,337  
FILING DATE: 10-AUG-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 04585/017004  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 542-5070  
TELEFAX: 200154  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-469-660-41

Query Match 100.0%; Score 53; DB 2; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXXXXXXXXXXXXXXC 21  
DB 4 CGCTCCTTCTTCTTGCCTTC 24

RESULT 7  
US-08-735-021-41  
Sequence 41, Application US/08735021B  
Patent No. 6194377  
GENERAL INFORMATION:  
APPLICANT: GOODEARL, ANDREW

APPLICANT: STROOBANT, PAUL  
APPLICANT: MINGHETTI, LUISA  
APPLICANT: WATERFIELD, MICHAEL  
APPLICANT: MARCHIONNI, MARK  
APPLICANT: CHEN, MARIO S.  
APPLICANT: HILES, IAN  
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
TITLE OF INVENTION: PREPARATION AND USE  
FILE REFERENCE: 04585/00200L  
CURRENT APPLICATION NUMBER: US/08/735,021B  
FILING DATE: 1996-10-22  
EARLIER APPLICATION NUMBER: 08/472,065  
EARLIER FILING DATE: 1995-06-06  
EARLIER APPLICATION NUMBER: 08/036,555  
EARLIER FILING DATE: 1993-03-24  
EARLIER APPLICATION NUMBER: 07/965,173  
EARLIER FILING DATE: 1992-10-23  
EARLIER APPLICATION NUMBER: 07/940,389  
EARLIER FILING DATE: 1992-09-03  
EARLIER APPLICATION NUMBER: 07/907,138  
EARLIER FILING DATE: 1992-06-30  
EARLIER APPLICATION NUMBER: 07/863,703  
EARLIER FILING DATE: 1992-04-03  
NUMBER OF SEQ ID NOS: 192  
SOFTWARE: FASTSEQ for Windows Version 3.0  
SEQ ID NO 41  
TYPE: PRT  
LENGTH: 24  
ORGANISM: Bos taurus  
US-08-735-021-41

Query Match 100.0%; Score 53; DB 3; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXXXXXXXXXXXXXXC 21  
DB 4 CGCTCCTTCTTCTTGCCTTC 24

RESULT 8  
US-08-734-664A-41  
Sequence 41, Application US/08734664A  
Patent No. 6204241  
GENERAL INFORMATION:  
APPLICANT: Goodearl, Andrew  
APPLICANT: Stroobant, Paul  
APPLICANT: Minghetti, Luisa  
APPLICANT: Waterfield, Michael  
APPLICANT: Marchionni, Mark  
APPLICANT: Chen, Mario  
APPLICANT: Hiles, Ian  
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
TITLE OF INVENTION: PREPARATION AND USE  
NUMBER OF SEQUENCES: 187  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Elbing LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: U.S.A.  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM Compatible Pentium  
OPERATING SYSTEM: Windows95  
SOFTWARE: Fastseq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/734,664A  
FILING DATE: 22-OCT-1996  
CLASSIFICATION: 536  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/249,322

FLING DATE: 26-MAY-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/036,555  
FLING DATE: 24-MAR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/965,173  
FLING DATE: 23-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/940,389  
FLING DATE: 03-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/907,138  
FLING DATE: 30-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/863,703  
FLING DATE: 03-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: UK 91 07566.3  
FLING DATE: 10-APR-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Bieker-Brady, Kristina  
REGISTRATION NUMBER: 39,109  
REFERENCE/DOCKET NUMBER: 04585/00200J  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 428-0200  
TELEFAX: (617) 428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-734-664A-41

Query Match 100.0%; Score 53; DB 3; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|::|  
Db 4 CGCTCCTTCTTCTGCCCCCTC 24

RESULT 9  
US-09-643-657-35  
Sequence 35, Application US/09643657  
Patent No. 6642024  
GENERAL INFORMATION:  
APPLICANT: Diane Pennica  
TITLE OF INVENTION: GUANYLATE-BINDING PROTEIN  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Genentech, Inc.  
STREET: 1 DNA Way  
CITY: South San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94080  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: WinPatIn (Genentech)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/643,657  
FLING DATE: 17-Aug-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/015,089A  
FLING DATE: 29-Jan-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Haack, Janet E.

REGISTRATION NUMBER: 28,616  
REFERENCE/DOCKET NUMBER: P1056  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650/225-1896  
TELEFAX: 650/952-9881  
INFORMATION FOR SEQ ID NO: 35:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24 amino acids  
TYPE: Amino Acid  
TOPOLOGY: linear  
SEQUENCE DESCRIPTION: SEQ ID NO: 35:  
US-09-643-657-35

Query Match 100.0%; Score 53; DB 4; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|::|  
Db 4 CCACCACAGGAGGACCTTC 24

RESULT 10  
PCT-US94-05083C-41  
Sequence 41, Application PC/TUS9405083C  
GENERAL INFORMATION:  
APPLICANT: Robert Sklar, Mark Marchionni,  
APPLICANT: David I. Gwynne  
TITLE OF INVENTION: METHODS FOR ALTERING  
TITLE OF INVENTION: MUSCLE CONDITION  
NUMBER OF SEQUENCES: 185  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: Massachusetts  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 5.25 inch, 360  
MEDIUM TYPE: kb storage  
COMPUTER: IBM  
OPERATING SYSTEM: PC-DOS  
SOFTWARE: Wordperfect  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05083C  
FLING DATE: 06-MAY-94  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/209,204  
FLING DATE: 08-MAR-94  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/059,022  
FLING DATE: 06-MAY-93  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 04585/028W01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 542-5070  
TELEFAX: (617) 542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
PCT-US94-05083C-41

Query Match 100.0%; Score 53; DB 5; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

OY 1 CXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|  
Db 4 CGCTCCTTCTTCTGCGCTTC 24

RESULT 11  
PCT-US95-06846A-41  
; Sequence 41, Application PC/TUS9506846A  
; GENERAL INFORMATION:  
; APPLICANT: Goodheart, Andrew David; Stroobant, Paul;  
; APPLICANT: Minghetti, Luisa; Waterfield, Michael; Marchioni, Mark;  
; APPLICANT: Chen, Miao Su; Hiles, Ian  
; TITLE OF INVENTION: Glial Mitogenic Factors, Their  
; NUMBER OF SEQUENCES: 178  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Felte & Lynch  
; STREET: 805 Third Avenue  
; CITY: New York City  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10022  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage  
; COMPUTER: IBM  
; OPERATING SYSTEM: PC-DOS  
; SOFTWARE: Wordperfect  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/06846A  
; FILING DATE: 25-MAY-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/249,322  
; FILING DATE: 26-MAY-1994  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/036,555  
; FILING DATE: 24-MAR-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/965,173  
; FILING DATE: 23-OCT-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/940,389  
; FILING DATE: 03-SEP-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/907,138  
; FILING DATE: 30-JUN-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/863,703  
; FILING DATE: 03-APRIL-1992  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: U.K. 91 07566.3  
; FILING DATE: 10-APRIL-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hanson, Norman D.  
; REGISTRATION NUMBER: 30,946  
; REFERENCE/DOCKET NUMBER: LUD 5250.5  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 688-9200  
; TELEFAX: (212) 838-3884  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 24  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
PCT-US95-06846A-41

Query Match 100.0%; Score 53; DB 5; Length 24;  
Best Local Similarity 19.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;  
OY 1 CXXCXXXXXXXXXXCXXC 21  
|::|::|::|::|::|::|::|

Db 4 CGCTCCTTCTTCTGCGCTTC 24

RESULT 12  
US-09-270-767-43284  
; Sequence 43284, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 43284  
; LENGTH: 30  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
; FEATURE:  
; OTHER INFORMATION: Xaa means any amino acid  
US-09-270-767-43284

Query Match 100.0%; Score 53; DB 4; Length 30;  
Best Local Similarity 23.8%; Pred. No. 1.6e+02;  
Matches 5; Conservative 16; Mismatches 0; Indels 0; Gaps 0;

OY 1 CXXCXXXXXXXXXXCXXC 21  
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Db 1 CNSSCKHSGMNCVXGKCGTTC 21

RESULT 13  
US-08-902-516-47  
; Sequence 47, Application US/08902516  
; Patent No. 5891432  
; GENERAL INFORMATION:  
; APPLICANT: Soc Hoo, William  
; TITLE OF INVENTION: MEMBRANE-BOUND CYTOKINE COMPOSITIONS  
; TITLE OF INVENTION: COMPRISING GM-CSF AND METHODS OF MODULATING AN IMMUNE  
; NUMBER OF SEQUENCES: 50  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CAMPBELL & FLORES, LLP  
; STREET: 4370 La Jolla Village Drive, Suite 700  
; CITY: San Diego  
; STATE: California  
; COUNTRY: United States  
; ZIP: 92121  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/902,516  
; FILING DATE: 29-JUL-1997  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Campbell, Cathryn A.  
; REGISTRATION NUMBER: 31,815  
; REFERENCE/DOCKET NUMBER: P-IM 2442  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (619) 535-9001  
; TELEFAX: (619) 535-8949  
; INFORMATION FOR SEQ ID NO: 47:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 38 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
US-08-902-516-47



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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 3.49137 Seconds  
(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-38

Perfect score: 53  
Sequence: 1 CXXXCXXXXXXXXXXCXXC 21

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Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

Published Applications AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
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- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
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- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
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- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	53	100.0	21	9	US-09-331-631A-38
2	53	100.0	21	14	US-10-147-095-38
3	53	100.0	24	8	US-08-736-019-41
4	53	100.0	28	9	US-09-331-631A-32
5	53	100.0	28	9	US-09-331-631A-35
6	53	100.0	28	14	US-10-147-095-32
7	53	100.0	28	14	US-10-147-095-35
8	53	100.0	31	14	US-10-372-076-214
9	53	100.0	31	16	US-10-677-074-214
10	53	100.0	32	15	US-10-203-675-5
11	53	100.0	37	14	US-10-008-277B-2
12	53	100.0	37	14	US-10-146-984A-2
13	53	100.0	38	9	US-09-847-185-47

14	53	100.0	38	14	US-10-224-386-47	Sequence 47, Appl
15	53	100.0	38	15	US-10-424-599-178666	Sequence 178666,
16	53	100.0	38	16	US-10-380-927-26	Sequence 26, Appl
17	53	100.0	39	14	US-10-029-386-27417	Sequence 27417, A
18	53	100.0	39	15	US-10-424-599-194565	Sequence 194565,
19	53	100.0	40	13	US-10-124-557-8	Sequence 8, Appl1
20	53	100.0	41	13	US-10-124-557-8	Sequence 6, Appl1
21	53	100.0	43	14	US-10-184-644-611	Sequence 611, App
22	53	100.0	43	14	US-10-184-634-611	Sequence 611, App
23	53	100.0	43	14	US-10-063-685-169	Sequence 169, App
24	53	100.0	45	8	US-08-900-230-12	Sequence 12, Appl
25	53	100.0	45	8	US-08-900-230-14	Sequence 14, Appl
26	53	100.0	45	8	US-08-450-842-97	Sequence 97, Appl
27	53	100.0	45	15	US-10-371-003-97	Sequence 97, Appl
28	53	100.0	45	15	US-10-424-599-159072	Sequence 159072,
29	53	100.0	45	16	US-10-437-963-111207	Sequence 111207,
30	53	100.0	47	8	US-08-450-842-93	Sequence 93, Appl
31	53	100.0	47	8	US-08-450-842-94	Sequence 94, Appl
32	53	100.0	47	8	US-08-450-842-95	Sequence 95, Appl
33	53	100.0	47	8	US-08-450-842-96	Sequence 96, Appl
34	53	100.0	47	14	US-10-029-386-33022	Sequence 33022, A
35	53	100.0	47	15	US-10-371-003-93	Sequence 93, Appl
36	53	100.0	47	15	US-10-371-003-94	Sequence 94, Appl
37	53	100.0	47	15	US-10-371-003-95	Sequence 95, Appl
38	53	100.0	47	15	US-10-371-003-96	Sequence 96, Appl
39	53	100.0	48	15	US-10-609-217-378	Sequence 378, App
40	53	100.0	48	15	US-10-632-388-378	Sequence 378, App
41	53	100.0	48	15	US-10-651-723-378	Sequence 378, App
42	53	100.0	48	15	US-10-645-761-378	Sequence 378, App
43	53	100.0	48	15	US-10-653-048-378	Sequence 378, App
44	53	100.0	50	8	US-08-900-230-8	Sequence 8, Appl1
45	53	100.0	50	8	US-08-900-230-58	Sequence 58, Appl

#### ALIGNMENTS

RESULT 1  
US-09-331-631A-38  
; Sequence 38, Application US/09331631A  
; Patent No. US20020168392A1  
; GENERAL INFORMATION:  
; APPLICANT: Manners, John M.  
; APPLICANT: Marcus, John Paul  
; APPLICANT: Goulter, Kenneth C.  
; APPLICANT: Green, Jodie L.  
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
; FILE REFERENCE: CIL123.001A PC  
; CURRENT APPLICATION NUMBER: US/09/331.631A  
; CURRENT FILING DATE: 1999-06-21  
; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
; PRIOR FILING DATE: 1997-12-22  
; PRIOR APPLICATION NUMBER: AU PO 4275  
; PRIOR FILING DATE: 1996-12-20  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 38  
; LENGTH: 21  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
; OTHER INFORMATION: wherein X is any amino acid.  
US-09-331-631A-38

Query Match 100.0%; Score 53; DB 9; Length 21;  
Best Local Similarity 100.0%; Pred. No. 4.9e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXXXCXXXXXXXXXXCXXC 21  
Db 1 CXXXCXXXXXXXXXXCXXC 21

## RESULT 2

US-10-147-095-38  
Sequence 38, Application US/10147095  
Publication No. US20030171274A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 38  
LENGTH: 21  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
US-10-147-095-38  
OTHER INFORMATION: wherein X is any amino acid.

Query Match 100.0%; Score 53; DB 14; Length 21;  
Best Local Similarity 100.0%; Pred. No. 4.9e+02;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXC 21  
DB 1 CXXXCXXXXXXXXXXXXC 21

## RESULT 3

US-08-736-019-41  
Sequence 41, Application US/08736019  
Publication No. US20030207799A1  
GENERAL INFORMATION:  
APPLICANT: Goodearl, Andrew  
APPLICANT: Stroobant, Paul  
APPLICANT: Minghetti, Luisa  
APPLICANT: Waterfield, Michael  
APPLICANT: Marchionni, Mark  
APPLICANT: Chen, Mario  
APPLICANT: Hillee, Ian  
TITLE OF INVENTION: GLIAL MITOGENIC FACTORS, THEIR  
TITLE OF INVENTION: PREPARATION AND USE  
NUMBER OF SEQUENCES: 189  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Ribling LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: U.S.A.  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM Compatible Pentium  
OPERATING SYSTEM: Windows95  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/736,019  
FILING DATE: 22-OCT-1996  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/471,833

## FILING DATE: 06-JUN-1995

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/036,555  
FILING DATE: 24-MAR-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/965,173  
FILING DATE: 23-OCT-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/907,138  
FILING DATE: 30-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/940,389  
FILING DATE: 03-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/863,703  
FILING DATE: 03-APR-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: UK 91 07566.3  
FILING DATE: 10-APR-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Bieker-Brady, Kristina  
REGISTRATION NUMBER: 39,109  
REFERENCE/DOCKET NUMBER: 04585/00200Q  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 428-0200  
TELEFAX: (617) 428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 24  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-736-019-41

Query Match 100.0%; Score 53; DB 8; Length 24;  
Best Local Similarity 19.0%; Pred. No. 5.5e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXXXC 21  
DB 4 CGCTCCTCTCTTGGCCCTTC 24

## RESULT 4

US-09-331-631A-32  
Sequence 32, Application US/09331631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULIN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 32  
LENGTH: 28  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURES:  
OTHER INFORMATION: Consensus sequence for antimicrobial peptides  
US-09-331-631A-32  
OTHER INFORMATION: wherein X is any amino acid.

Query Match 100.0%; Score 53; DB 9; Length 28;



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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Amplification primer containing a restriction endonuclease site
US-10-372-076-214

Query Match          100.0%; Score 53; DB 14; Length 31;
Best Local Similarity 19.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
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Db 9 CCATCTTCCAAATTACACCC 29

RESULT 9
US-10-677-074-214
; Sequence 214, Application US/10677074
; Publication No. US20040156863A1
; GENERAL INFORMATION:
; APPLICANT: Page, Mark
; APPLICANT: Friede, Martin
; APPLICANT: Schmidt, Annette Elisabeth
; APPLICANT: Strober, Detlef
; TITLE OF INVENTION: STABILIZED HBC CHIMER PARTICLES AS THERAPEUTIC VACCINE FOR
; FILE REFERENCE: 4564/87179
; CURRENT APPLICATION NUMBER: US/10/677,074
; PRIOR FILING DATE: 2003-10-01
; PRIOR APPLICATION NUMBER: 10/372,076
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/080,299
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 10/082,014
; PRIOR FILING DATE: 2002-02-22
; NUMBER OF SEQ ID NOS: 308
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 214
; LENGTH: 31
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Amplification primer containing a restriction endonuclease site
US-10-677-074-214

Query Match          100.0%; Score 53; DB 16; Length 31;
Best Local Similarity 19.0%; Pred. No. 6.8e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
   |::|::|::|::|::|::|::|
Db 9 CCATCTTCCAAATTACACCC 29

RESULT 10
US-10-203-675-5
; Sequence 5, Application US/10203675
; Publication No. US20030211097A1
; GENERAL INFORMATION:
; APPLICANT: Pastan, Ira
; APPLICANT: Beers, Richard
; APPLICANT: Partha, Chowdhury S.
; APPLICANT: Darell, Bygner
; APPLICANT: The Government of the United States as represented by the Secretary of th
; APPLICANT: Duke University
; TITLE OF INVENTION: Anti-BGFVII SCFVs With Improved Cytotoxicity and
; TITLE OF INVENTION: Yield, Immunotoxins Based Thereon, And Methods of Use
; FILE REFERENCE: 015280-419100US
; CURRENT APPLICATION NUMBER: US/10/203,675
; PRIOR FILING DATE: 2003-01-07
; PRIOR APPLICATION NUMBER: WO PCT/US01/05923
; PRIOR FILING DATE: 2001-02-23
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; PRIOR APPLICATION NUMBER: US 60/185,039
; PRIOR FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: AMEN DNA
US-10-203-675-5

Query Match          100.0%; Score 53; DB 15; Length 32;
Best Local Similarity 19.0%; Pred. No. 7e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
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Db 10 CTTTCACACGCTATGCGGCG 30

RESULT 11
US-10-008-277B-2
; Sequence 2, Application US/10008277B
; Publication No. US20030100549A1
; GENERAL INFORMATION:
; APPLICANT: Vertex Pharmaceuticals Incorporated
; APPLICANT: Salituro, Francesco
; APPLICANT: Bemis, Guy
; APPLICANT: Green, Jeremy
; APPLICANT: Jaena, Fejzo
; APPLICANT: Xie, Xiaoling
; TITLE OF INVENTION: Inhibitors of c-Jun N-Terminal Kinases (JNK)
; FILE REFERENCE: VPI-99-06 CON
; CURRENT APPLICATION NUMBER: US/10/008,277B
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: PCT/US00/15248
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 60/237,523
; PRIOR FILING DATE: 1999-06-02
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 37
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-008-277B-2

Query Match          100.0%; Score 53; DB 14; Length 37;
Best Local Similarity 19.0%; Pred. No. 7.8e+02;
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;

QY 1 CXXXCXXXXXXXXXXCXXC 21
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Db 12 CATTCTGAATTCATTCTTCC 32

RESULT 12
US-10-146-984A-2
; Sequence 2, Application US/10146984A
; Publication No. US20030144309A1
; GENERAL INFORMATION:
; APPLICANT: Vertex Pharmaceuticals Incorporated
; APPLICANT: Moon, Young Choon
; TITLE OF INVENTION: Inhibitors of Src and Other Protein Kinases
; FILE REFERENCE: VPI-01-111
; CURRENT APPLICATION NUMBER: US/10/146,984A
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: US 60/291,340
; PRIOR FILING DATE: 2001-05-16
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.0
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Query Match 100.0%; Score 53; DB 15; Length 38;  
Best Local Similarity 19.0%; Pred.No. 8e+02;  
Matches 4; Conservative 17; Mismatches 0; Indels 0; Gaps 0;  
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Db 11 CCRKCCTCVNPLELCCRLC 31

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Job time : 4.49137 secs

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16	898	25.4	582	14	US-10-147-095-22	Sequence 22, Appl
17	864.5	24.4	637	9	US-09-331-631A-24	Sequence 24, Appl
18	864.5	24.4	637	14	US-10-147-095-24	Sequence 24, Appl
19	853.5	24.1	605	15	US-10-100-303A-110	Sequence 110, Appl
20	850	24.0	623	15	US-10-424-599-153206	Sequence 15306,
21	849.5	24.0	626	10	US-09-847-806-28	Sequence 28, Appl
22	849.5	24.0	626	14	US-10-328-806-28	Sequence 28, Appl
23	849.5	24.0	626	15	US-10-100-303A-7	Sequence 7, Appl
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28	849	24.0	614	14	US-10-147-095-21	Sequence 21, Appl
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32	840.5	23.7	605	14	US-10-147-095-25	Sequence 25, Appl
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35	810	22.9	518	15	US-10-424-599-153615	Sequence 153615,
36	808	22.8	524	14	US-10-155-805-1	Sequence 1, Appl
37	806.5	22.8	489	14	US-10-155-805-3	Sequence 3, Appl
38	804.5	22.7	489	15	US-10-424-599-153614	Sequence 153614,
39	780	22.0	447	15	US-10-425-114-58676	Sequence 58676, A
40	756	21.3	444	14	US-10-155-805-2	Sequence 2, Appl
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42	735.5	20.8	435	15	US-10-445-2278-11	Sequence 12, Appl
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44	735	20.8	417	15	US-10-345-2278-14	Sequence 14, Appl
45	722	20.4	390	15	US-10-345-227B-2	Sequence 2, Appl

## RESULT

US-09-331-631A-1

; sequence 1, application US/20020168392A1  
; Patent No. US20020168392A1

; GENERAL INFORMATION:

APPLICANT: Mannerts, John M.  
APPLICANT: Marcus, John Paul

APPLICANT: Goulter, Kenneth C.

APPLICANT: Green, Jodie L.

```

; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULLN23.001APC

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CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1000-06-21

;; CURRENT FILING DATE: 1999-06-24  
;; PRIOR APPLICATION NUMBER: PCT/

PRIOR FILING DATE: 1997-12-22

PRIOR FILING DATE: 1996-12-20

; NUMBER OF SEQ ID NOS: 40

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; SOFTWARE: FastSEQ for Windows
; SEQ ID NO 1
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; LENGTH: 666

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; TYPE: PRT
OBCANTEM, Macadamia :interrefol

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US-09-331-631A-1

Answer Match 100 %.

Query match	100.0%
Best Local Similarity	100.0%

Matches 666; Conservative 0

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 ; Sequence 1, Application US/10147095  
 ; Publication No. US20030171274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Manners, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Coulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/10/147,095  
 ; CURRENT FILING DATE: 2002-05-15  
 ; PRIOR APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 1  
 ; LENGTH: 666  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 US-10-147-095-1

APR

Query Match 100.0%; Score 3542; DB 14; Length 666;  
 Best Local Similarity 100.0%; Pred. No. 2,1e-262;  
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RESULT 3  
 US-09-331-631A-3  
 ; Sequence 3, Application US/09331631A  
 ; Patent No. US20020168392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Manners, John M.  
 ; APPLICANT: Marcus, John Paul  
 ; APPLICANT: Coulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/09/331,631A  
 ; CURRENT FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
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 ; LENGTH: 666  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:



US-09-331-631A-5  
 ; Sequence 5, Application US/09331631A  
 ; Patent No. US20020168392A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mannere, John M.  
 ; APPLICANT: Marcue, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/09/331,631A  
 ; CURRENT FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; PRIOR FILING DATE: 1996-12-20  
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 ; OTHER INFORMATION: Partial mature peptide  
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Query Match 91.1%; Score 3227; DB 9; Length 625;  
 Best Local Similarity 96.6%; Pred. No. 2.6e-238;

Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

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DB 601 QHQQGSPRSTKQOQPLVSIIDFVGF 625

RESULT 6  
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 ; Publication No. US20030171274A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mannere, John M.  
 ; APPLICANT: Marcue, John Paul  
 ; APPLICANT: Goulter, Kenneth C.  
 ; APPLICANT: Green, Jodie L.  
 ; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 ; FILE REFERENCE: CULIN23.001APC  
 ; CURRENT APPLICATION NUMBER: US/10/147,095  
 ; CURRENT FILING DATE: 2002-05-15  
 ; PRIOR APPLICATION NUMBER: US/09/331,631A  
 ; PRIOR FILING DATE: 1999-06-21  
 ; PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 ; PRIOR FILING DATE: 1997-12-22  
 ; PRIOR APPLICATION NUMBER: AU PO 4275  
 ; PRIOR FILING DATE: 1996-12-20  
 ; NUMBER OF SEQ ID NOS: 40  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 5  
 ; LENGTH: 625  
 ; TYPE: PRT  
 ; ORGANISM: Macadamia integrifolia  
 ; FEATURE:  
 ; NAME/KEY: PEPTIDE  
 ; LOCATION: (1)...(625)  
 ; OTHER INFORMATION: Partial mature peptide  
 ; US-10-147-095-5

Query Match 91.1%; Score 3227; DB 14; Length 625;  
 Best Local Similarity 96.6%; Pred. No. 2.6e-238;

Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 42 QCMQLETSQGMKRCVSCDCKRFEEDIDMSKYDNGEDPOTECQCCQRCRQESGGRPOQY 101  
 DB 1 QCMQLETSQGMKRCVSCDCKRFEEDIDMSKYDNGEDPOTECQCCQRCRQESGGRPOQY 60  
 QY 102 CORCKEICEEEENRORDPQOYEQCKQCORRETERPHMOTCOQRCERYEKERKQ 161  
 DB 61 CORCKEICEEEENRORDPQOYEQCKQCORRETERPHMOTCOQRCERYEKERKQ 120  
 QY 162 QKRYEQQRDEBEKYEERKKEEDNKRDPQOREYEDCRRRCQOEPRQOHCQLCRCQOR 221  
 DB 121 QKRYEQQRDEBEKYEERKKEEDNKRDPQOREYEDCRRRCQOEPRQOHCQLCRCQOR 180  
 QY 222 QHGRGDMNFORGSGGRYEGBEESQNDPYFDERSLSTRTEREGHISVLENFYGRSK 281  
 DB 181 QHGRGDMNFORGSGGRYEGBEESQNDPYFDERSLSTRTEREGHISVLENFYGRSK 240  
 QY 282 LIRALKNYRLVYLEANPNFVLPTHLADAILVIGRGALKMIIHNDRESYNLECGDYI 341  
 DB 241 LIRALKNYRLVYLEANPNFVLPTHLADAILVIGRGALKMIIHNDRESYNLECGDYI 300  
 QY 342 RIPAGTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPAGQONPEPYLSTFSKEILEAA 401  
 DB 301 RIPAGTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPAGQONPEPYLSTFSKEILEAA 360  
 QY 402 LNTQTEKLRGVNGQOREGVITIRASQOIRELTRDSESRHMIIRGESSSRGPYULFNKR 461  
 DB 361 LNTQTEKLRGVNGQOREGVITIRASQOIRELTRDSESRHMIIRGESSSRGPYULFNKR 420  
 QY 462 PLYSNKYQAYEVKPEYDROLQDMDSVFIANTVQSGMMGPFNTRSTKVVVVAAGEADV 521  
 DB 421 PLYSNKYQAYEVKPEYDROLQDMDSVFIANTVQSGMMGPFNTRSTKVVVVAAGEADV 480  
 QY 522 ENACPHLSGRHGRGGGKXHEEBEDVHYEQVRARLSKREAVYVLACHPVVVFSSNGENLL 581

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Db      481 EWACPHLSGRHGGRGGKRRHEEEVHYEQVVARLSKREAIIVLAGHPVVFVSSGNENLL 540
Qy      582 LPAFGINQNNHENFLAGERNVLOQIEPQAMELAPAPRKVEESFNOSODSIFFPGPR 641
Db      541 LFAFGINQNNHENFLAGERNVLOQIEPQAMELAPAPRKVEESFNOSODSIFFPGPR 600
Qy      642 OHQOOSPRSTKQOQPLVSLIDPVGF 666
Db      601 OHQOOSPRSTKQOQPLVSLIDPVGF 625

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## RESULT 7

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US-09-331-631A-8
; Sequence 8, Application US/09331631A
; Patent No. US2002016832A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 590
; TYPE: PRT
; ORGANISM: Gossypium hirsutum (cotton)
US-09-331-631A-8

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Query Match 31.2%; Score 1103.5; DB 9; Length 590;

Best Local Similarity 38.7%; Pred. No. 8.9e-76; Indels 87; Gaps 14;

Matches 235; Conservative 110; Mismatches 175;

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Qy      76 EDPQTECCQCORRCQESGPRQOQYCORCKEICEESEEYVNR--DPOQYEOCQKHC 133
Db      35 DDPKRYEDCRRCMDTRGQKEQOQCESCKSYGKDXQQRHNPEDPQRREYECQDEC 94
Qy      134 QRRETEPRHMQTCQORCERRYEKEKQKRYEQRDEDEKYEERMKEDNKRDPQORE 193
Db      95 --RQEEBQRPQOQRCCKRFEQEQOQ-----SQRQ 123
Qy      194 YEDCRRCEQOE--PRQHQCOLRCREOQRQHGGRGDMNPNQRG-----GSGRYEEGBE 245
Db      124 FOEQQHCHQOQREKQOQCVRECKRYQE-----NPRGRREBEAEEETEGBEQ 175
Qy      246 EOSDNPYFDEBSLSTRTEBEGHISYLENFGYRSKLRALKNYVLVLEAPNAPVFLPT 305
Db      176 EOSNHPFHFHRSFQSRREBHGFRVLORFASRHPILRGINERFLSILEANPNFVLPH 235
Qy      306 HLDADAILLVIGGRALKMHHDNRESYVLECGDVIRIPAGTFYILINDNNEHLIAKF 365
Db      236 HCDARKIYLVNIGRGTLLFTLHENKESYIVGVVVKYPAGSTVYLANQDNKEKLIIVL 295
Qy      366 LOTISTPOYKEFPFAGQNPPEYLSFESKELLEALNTQTEKLAGVFG-----QQRE 418
Db      296 HRPVNNPQOFEEFFPAGQRPQSYLAFSREILBPAFNTRSQJDELFGGRQSRRRQOQ 355
Qy      419 GVIIRASQEQIRELTRDSESRHMHIRGSESSRGPYVLFNKRPLYSNKYGAYEVKED 478
Db      356 GMFRASQEQIRALSQEAITSR-----EKSGE--RAFNILSGTPRYSNONGFFACRPE 409
Qy      479 YROLQDMLSVFIANTVQSGMMGPFNTNSTKYVVVAVASGEADVEMACPHLSGRHGGRGG 538
Db      410 FROLQDINVTYALQINQSSIFVPYHNSKATFVILVTEGNGYAEVMSPLP-----ROSS 464
Qy      539 KRHEEEDV-----HYEQVVARLSKREAIIVLAGHPVVFVSSGNENLLPAP 585

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Db      465 YEEEBEEDBEEOEBEERRRSQYRKIRSRLSRGIFVVPANFPVTYVFAQONLRMGF 524
Qy      586 G-----INQNNHENFLAGERNVLOQIEPQAMELAPAPRKVEESFNOSODSIFFPGPR 640
Db      525 GLYNQINPDMNQRIFFVAGKINHV--RQWDSQAKELAFGVSSRLVDIFNSNQESYFVS- 582
Qy      641 RQHQOOS 647
Db      583 RQRORAS 589

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## RESULT 8

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US-10-147-095-8
; Sequence 8, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 590
; TYPE: PRT
; ORGANISM: Gossypium hirsutum (cotton)
US-10-147-095-8

```

Query Match 31.2%; Score 1103.5; DB 14; Length 590;

Best Local Similarity 38.7%; Pred. No. 8.9e-76; Indels 87; Gaps 14;

Matches 235; Conservative 110; Mismatches 175;

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Qy      76 EDPQTECCQCORRCQESGPRQOQYCORCKEICEESEEYVNR--DPOQYEOCQKHC 133
Db      35 DDPKRYEDCRRCMDTRGQKEQOQCESCKSYGKDXQQRHNPEDPQRREYECQDEC 94
Qy      134 QRRETEPRHMQTCQORCERRYEKEKQKRYEQRDEDEKYEERMKEDNKRDPQORE 193
Db      95 --RQEEBQRPQOQRCCKRFEQEQOQ-----SQRQ 123
Qy      194 YEDCRRCEQOE--PRQHQCOLRCREOQRQHGGRGDMNPNQRG-----GSGRYEEGBE 245
Db      124 FOEQQHCHQOQREKQOQCVRECKRYQE-----NPRGRREBEAEEETEGBEQ 175
Qy      246 EOSDNPYFDEBSLSTRTEBEGHISYLENFGYRSKLRALKNYVLVLEAPNAPVFLPT 305
Db      176 EOSNHPFHFHRSFQSRREBHGFRVLORFASRHPILRGINERFLSILEANPNFVLPH 235
Qy      306 HLDADAILLVIGGRALKMHHDNRESYVLECGDVIRIPAGTFYILINDNNEHLIAKF 365
Db      236 HCDARKIYLVNIGRGTLLFTLHENKESYIVGVVVKYPAGSTVYLANQDNKEKLIIVL 295
Qy      366 LOTISTPOYKEFPFAGQNPPEYLSFESKELLEALNTQTEKLAGVFG-----QQRE 418
Db      296 HRPVNNPQOFEEFFPAGQRPQSYLAFSREILBPAFNTRSQJDELFGGRQSRRRQOQ 355
Qy      419 GVIIRASQEQIRELTRDSESRHMHIRGSESSRGPYVLFNKRPLYSNKYGAYEVKED 478
Db      356 GMFRASQEQIRALSQEAITSR-----EKSGE--RAFNILSGTPRYSNONGFFACRPE 409
Qy      479 YROLQDMLSVFIANTVQSGMMGPFNTNSTKYVVVAVASGEADVEMACPHLSGRHGGRGG 538

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Db 410 FROLRDINTVSAALQINQSGIFVPHNYSKATFVILVTBNGVAENVSPHLP-----ROSS 464  
Qy 539 KRHEEDV-----HYEQVRLSKREAIIVLAGHPVAVSSGNENLLPAP 585  
Db 465 YEEBEEDEBEEEOBEEERRSGQYKIRSLRSGDIFVVPANFPTFVASQNIAMRGF 524  
Qy 586 G-----INANNHENFLAGERENVLOQIEPQAMELAPAPKREVEESFNSQDSITFPQPR 640  
Db 525 GLYNQINPDHNRIFVAKINHV-RQMSQAKELAFGVSKLYDEIFNSNPQESYFVS- 582  
Qy 641 RQHQQS 647  
Db 583 RQRQRAS 589

RESULT 9  
US-10-264-303-3  
/ Sequence 3, Application US/10264303  
/ Publication No. US20030124060A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Roux, Kenneth  
/ APPLICANT: Sathé, Shridhar  
/ APPLICANT: Teuber, Suzanne  
/ TITLE OF INVENTION: Purified Linear Epitopes from Cashew Nuts, Nucleic Acids Encoding  
/ FILE REFERENCE: Therefor and Associated Methods  
/ CURRENT APPLICATION NUMBER: US/10/264,303  
/ PRIOR FILING DATE: 2002-10-03  
/ PRIOR APPLICATION NUMBER: 60/326,793  
/ PRIOR FILING DATE: 2001-10-03  
/ PRIOR APPLICATION NUMBER: 60/371,774  
/ NUMBER OF SEQ ID NOS: 15  
/ SOFTWARE: PatentIn version 3.0  
/ SEQ ID NO 3  
/ LENGTH: 540  
/ TYPE: PRP  
/ ORGANISM: Anacardium occidentale  
US-10-264-303-3

Query Match 29.1%; Score 1031.5; DB 14; Length 540;  
Best Local Similarity 38.4%; Pred. No. 2.6e-70;  
Matches 211; Conservative 115; Mismatches 176; Indels 47; Gaps 10;  
Qy 104 RCKEICEEERBYNRDPOQOYEOCKRCRRETPRMQTCQRCRRYKERRKQOK 163  
Db 35 KCKKQCKYQROVD-----EQKQCVKCE-----KYYKCKGRER 71  
Qy 164 RYEQQRDEBEKYEERMKEDNKRDPOQREYEDCRRRCQOEPRQOH-COLRCRQOQR 222  
Db 72 EHE-----EEBEGTGVDEPSTHEPAEKHLSQCKRCQERQEGQKQLCRFCQERYK 127  
Qy 223 HGRGDMNFORGSGRYEER-EEQSDNPPYFDRSLSTRPRTBEHISVLENFYGRSK 281  
Db 128 E-RG--QHNYKDEDEDEDEBAEEDENPVFEDEDTTKVKEOGKVLLPFTQKSK 184  
Qy 282 LRALKNTRLVLLANPNAPVLPYTHLDADAILVIGRGALKMTHHNRBSVNLGCDVI 341  
Db 185 LHALEKRYLAVLANPQAFVVPVSHMDSIFVSWGSGITTKLENKRESINVRQSDIV 244  
Qy 342 RIPAGTFYILNRDNNERLHAKFLQITISTGQYKEFFPAGQNPBEYLSFSEKILEAA 401  
Db 245 SSSSTPFIYIANNDENEKLYVQFLRPVNLPGHFEVFGGGENPESFYAFSWEILEAA 304  
Qy 402 LNTQTEKLRGVFGQOREGVIIIRASQOQIRELTRDSSRHHNIRRGESSRGPNLPNKR 461  
Db 305 LKTSKDTLEKLFKQDQOTIMKAKSKQIRAMSRKRGSGPKIWPFT--EESTGSFKLFKD 361  
Qy 462 PLYSKYGOAAYEVPEBYROLQMDLSVFIANTVQSGMWGPFPNTSTKVVVAASGEADV 521  
Db 362 PSQNKIGQLFEARIDYPLPEKLDNVVSYANITKGGMSVPFNNSATKIAIIVSSEGCY 421  
Qy 522 EMACPHLSGRRHGGGKRRHEEDVYHEQVRLSKREAIIVLAGHPVAVSSGNENLL 581

Db 422 EIACPHLS-----SKSHPSYKCLARIRKDTVFIYPAGHPFATVASGENLE 470  
Qy 582 LPAFGINANNHENFLAGERENVLOQIEPQAMELAPAPKREVEESFNSQDSITFPQPR 641  
Db 471 IVCFEVNAGNIRYTLAKR-KNIIKVMKEAKELAPKQEGEBVDKVFQKDBEPFQGP 529  
Qy 642 QHQQSPRS 650  
Db 530 WRKKEGRA 538

RESULT 10  
US-10-264-303-4  
/ Sequence 4, Application US/10264303  
/ Publication No. US20030124060A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Roux, Kenneth  
/ APPLICANT: Sathé, Shridhar  
/ APPLICANT: Teuber, Suzanne  
/ TITLE OF INVENTION: Purified Linear Epitopes from Cashew Nuts, Nucleic Acids Encoding  
/ FILE REFERENCE: Therefor and Associated Methods  
/ CURRENT APPLICATION NUMBER: US/10/264,303  
/ PRIOR FILING DATE: 2002-10-03  
/ PRIOR APPLICATION NUMBER: 60/326,793  
/ PRIOR FILING DATE: 2001-10-03  
/ PRIOR APPLICATION NUMBER: 60/371,774  
/ NUMBER OF SEQ ID NOS: 15  
/ SOFTWARE: PatentIn version 3.0  
/ SEQ ID NO 4  
/ LENGTH: 536  
/ TYPE: PRP  
/ ORGANISM: Anacardium occidentale  
US-10-264-303-4

Query Match 29.1%; Score 1030.5; DB 14; Length 536;  
Best Local Similarity 38.3%; Pred. No. 3e-70;  
Matches 210; Conservative 116; Mismatches 176; Indels 47; Gaps 10;  
Qy 104 RCKEICEEERBYNRDPOQOYEOCKRCRRETPRMQTCQRCRRYKERRKQOK 163  
Db 31 KCKKQCKYQROVD-----EQKQCVKCE-----KYYKCKGRER 67  
Qy 164 RYEQQRDEBEKYEERMKEDNKRDPOQREYEDCRRRCQOEPRQOH-COLRCRQOQR 222  
Db 68 EHE-----EEBEGTGVDEPSTHEPAEKHLSQCKRCQERQEGQKQLCRFCQERYK 123  
Qy 223 HGRGDMNFORGSGRYEER-EEQSDNPPYFDRSLSTRPRTBEHISVLENFYGRSK 281  
Db 124 E-RG--QHNYKDEDEDEDEBAEEDENPVFEDEDTTKVKEOGKVLLPFTQKSK 180  
Qy 282 LRALKNTRLVLLANPNAPVLPYTHLDADAILVIGRGALKMTHHNRBSVNLGCDVI 341  
Db 181 LHALEKRYLAVLANPQAFVVPVSHMDSIFVSWGSGITTKLENKRESINVRQSDIV 240  
Qy 342 RIPAGTFYILNRDNNERLHAKFLQITISTGQYKEFFPAGQNPBEYLSFSEKILEAA 401  
Db 241 SSSSTPFIYIANNDENEKLYVQFLRPVNLPGHFEVFGGGENPESFYAFSWEILEAA 300  
Qy 402 LNTQTEKLRGVFGQOREGVIIIRASQOQIRELTRDSSRHHNIRRGESSRGPNLPNKR 461  
Db 301 LKTSKDTLEKLFKQDQOTIMKAKSKQIRAMSRKRGSGPKIWPFT--EESTGSFKLFKD 357  
Qy 462 PLYSKYGOAAYEVPEBYROLQMDLSVFIANTVQSGMWGPFPNTSTKVVVAASGEADV 521  
Db 358 PSQNKIGQLFEARIDYPLPEKLDNVVSYANITKGGMSVPFNNSATKIAIIVSSEGCY 417  
Qy 522 EMACPHLSGRRHGGGKRRHEEDVYHEQVRLSKREAIIVLAGHPVAVSSGNENLL 581  
Db 418 EIACPHLS-----SKSHPSYKCLARIRKDTVFIYPAGHPFATVASGENLE 466







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# OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 ; Search time 40.742 Seconds  
(without alignments) 1220.271 Million cell updates/sec

Title: US-09-331-631A-1

Perfect score: 3542  
Sequence: 1 MAINTSNNCSLFLSLFL.....SPRRTKQOQPLVSLIDFVGF 666

Scoring table:  
BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1127	31.8	566	1	US-07-955-905A-2
2	1127	31.8	566	1	US-07-955-905A-22
3	1075	30.4	587	1	US-07-955-905A-23
4	850.5	24.0	626	4	US-09-106-872A-4
5	838.5	23.7	605	1	US-07-955-905A-24
6	821.5	23.2	571	1	US-07-955-905A-25
7	808	22.8	524	4	US-09-424-283-1
8	806.5	22.8	489	4	US-09-424-283-3
9	756	21.3	444	4	US-09-424-283-2
10	752	21.2	448	4	US-09-323-195A-18
11	700.5	19.8	409	4	US-09-424-283-4
12	699.5	19.7	410	1	US-07-955-905A-26
13	692.5	19.6	523	4	US-09-323-195A-17
14	542	15.3	421	1	US-07-955-905A-27
15	464.5	13.1	335	4	US-09-106-872A-17
16	238	6.7	611	4	US-09-216-393B-81
17	216.5	6.1	1898	1	US-08-056-200-94
18	216.5	6.1	1898	2	US-08-800-644-94
19	216.5	6.1	1898	4	US-09-538-092-1280
20	214	6.0	608	4	US-09-270-767-34937
21	214	6.0	608	4	US-09-270-767-48154
22	211.5	6.0	1162	2	US-08-728-323A-2
23	211.5	6.0	1162	3	US-09-298-568-2
24	211.5	6.0	1162	4	US-09-410-399-2
25	211.5	6.0	1162	4	US-09-894-273-2
26	205.5	5.8	1564	4	US-10-144-198-2
27	205.5	5.8	1564	4	US-10-144-198-4

28	195.5	5.5	1239	4	US-09-688-188B-13	Sequence 13, Appl
29	195.5	5.5	1239	4	US-09-291-417D-13	Sequence 13, Appl
30	193	5.4	1375	3	US-09-722-119-2	Sequence 2, Appl
31	193	5.4	1375	3	US-09-721-832-2	Sequence 2, Appl
32	193	5.4	1375	3	US-09-721-832-2	Sequence 2, Appl
33	191	5.4	1375	4	US-09-639-207-15	Sequence 15, Appl
34	186	5.3	735	4	US-10-164-595-80	Sequence 80, Appl
35	186	5.3	784	4	US-10-164-595-79	Sequence 79, Appl
36	186	5.3	843	4	US-10-164-595-54	Sequence 54, Appl
37	181.5	5.1	584	4	US-09-949-016-8587	Sequence 8587, Ap
38	178	5.0	779	4	US-10-164-595-56	Sequence 56, Appl
39	176	5.0	585	4	US-09-949-016-6627	Sequence 6627, Ap
40	175	4.9	797	4	US-09-949-016-9676	Sequence 9676, Ap
41	170.5	4.8	505	4	US-09-248-796A-19253	Sequence 19253, A
42	170.5	4.8	1233	4	US-09-645-456A-35	Sequence 35, Appl
43	170.5	4.8	1233	4	US-09-425-324A-35	Sequence 35, Appl
44	170.5	4.8	1233	4	US-09-645-791-35	Sequence 35, Appl
45	170	4.8	919	4	US-09-949-016-6954	Sequence 6954, Ap

## ALIGNMENTS

```

RESULT 1
US-07-955-905A-2
Sequence 2, Application US/07955905A
Patent No. 5770433
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
TITLE OF INVENTION: PRECURSOR
NUMBER OF SEQUENCES: 28
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955, 905A
FILING DATE: 21-JAN-1993
CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 566 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-955-905A-2

Query Match          31.8%; Score 1127; DB 1; Length 566;
Best Local Similarity 40.4%; Pred. No. 2.2e-92;
Matches 233; Conservative 109; Mismatches 177; Indels 58; Gaps 13;

109 ICEEEENR---ORDDPOQYECQKHCORRETEPRHNTQOQRCERYEKEKQKRY 165
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
22 LCGSVATGKQYERDPOQYECQRCSEATEERBEQCEQKER-----EX 70
166 EEQREDEKYEERKEEDNRKDDPOQREYEDCRRCEQOE--PROQHCQRCREQORH 223
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
71 KEQQRQEEEL-----QROYQCQRCQRCQRCQRCQRCQRCQRCQRCQRCQRCQ 116
224 GRGGMNMPQGGSGRGYEEGEEQSDNRYTDE--RLSLTRPTREGHLSYLENFGRSKL 282
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
117 ER-GEHEVYHNNKRRSEEGQQNNRYVPPKRSFQTRFDEGNFKILQRFANSP 175
283 LRLKNVLTVLLEAPNAFVLTPLHDADAILLVIGRGALIKMIIHNDSESYLLECGDYIR 342
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
176 LKGINVYLAIFANPNFLLPHHDAALIFVINGKTIIFVTHENKESYVNGGTVAS 235
343 IPAGTFYLLRNDRNRIHIAKFTQISTPQOYKEFPAGQONPEPYLSTSKYLEAL 402
   |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
236 VPAGSTVYVQODNQEKTLIAVLALPVNSPGKYELFFPAGNNKPESSYGAQSYVLETVF 295

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```

QY      403 NTQTEKLRCGVFGQQR-----EGVITRASQEOIRELTRDSDSRHMHIRGSGESSRCP 454
Db      296 NTORELEETLEIEQGRQKQKQGGKFRKAKPEQIRALISQOATSPRH----RGGE--RLA 349
QY      455 YVLFNKRPLYSNKYQAYEVKPEDEYRQLODMDSVFIANVYQSGMGGFFFTSTRTSTKYVV 514
Db      350 INLTSQSPYNSQNRPFEPACPEDFSQFQNDVAVSAFKLNQGAIFVPHNYSKATFFVVFV 409
QY      515 ASGEADVEMACPHLSGRGGRGGRK--RHEEBEDV-----HYQVPAKLSKREAVYLA 566
Db      410 TNGYVYAGMACPHLSRQSGSQSGQRDRRQDEESEEETFEQOQVAPLSPGDFVAPAP 469
QY      567 GHPVVFVSSGNENLLFAFGINAQNNHENPLAGREBNVLOQIEPQAMELAFAPRKVEE 626
Db      470 GHAIVTFPASKDQPLNAVAFGLNAQNNORIFLAGK-KULVQMSSEAKELSFQVPSKLVN 528
QY      627 SPNSODOSIFPPGRHOQOSPRSTKQOQPLVSTLDF 663
Db      529 IFNNDSEYFMSFSQQRQR---RDERRGNPLASTLDF 562

```

## RESULT 2

```

US-07-955-905A-22
; Sequence 22, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:

```

```

; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 566 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE: cacao
; ORGANISM: Theobroma cacao
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..566
; OTHER INFORMATION: /note= "67 kD Precursor Protein"
US-07-955-905A-22

```

```

Query Match      31.8%; Score 1127; DB 1; Length 566;
Best Local Similarity 40.4%; Pred. No. 2, 2e-92;
Matches 233; Conservative 109; Mismatches 177; Indels 58; Gaps 13;

```

```

QY      109 ICEBEEBYNR---QRPDPOQYQOCQKQCRRETFRHMOTQOCRCERYEKKRQKQRY 165
Db      22 LSSGVSAYGRKQYEDPRQYEOCCORCESENTEREBOECRCER-----EY 70
QY      166 EEOQREDEKYEERKMEEDNKDPOQREYEDCRRCQOE--PQOQHOCQRCHEQORH 223
Db      71 KEQQRQOEEL-----QRYOQCGRCQHQOQGRQOQCCQKCKWEYKEQ 116
QY      224 GRCGMNMPQKQSGSRVYEGEBEGSDNYPYDE-RSLSTRPTEGHI SVLENFYGRSKL 282
Db      117 ER-GEHENYHNHKKRSEEBEGQOQNNNYPFKRRSFQTRPDEGFKILQRFANSP 175
QY      283 LRALNRYLVLLNPNFVLPETHDADAILLVYSGALKMHHMDRRESYNEECGVYR 342
Db      176 LKGINDYVLAMFENPNFILLPHICDAEALFYVNGKTLTFVHNKESYVQRGTVVS 235

```

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QY      343 IPAGTFYILNDDNNEERLHIAFLQITSTPQYKPEFPAGQNDPEPYLSTESKEILEMAL 402
Db      236 VPAGSTVYVVSQDNOEKLTIAVLALPVNSPGKYEFPFAGNNKPEYSYGASTYELVEVF 295
QY      403 NTQTEKLRCGVFGQQR-----EGVITRASQEOIRELTRDSDSRHMHIRGSGESSRCP 454
Db      296 NTORELEETLEIEQGRQKQKQGGKFRKAKPEQIRALISQOATSPRH----RGGE--RLA 349
QY      455 YVLFNKRPLYSNKYQAYEVKPEDEYRQLODMDSVFIANVYQSGMGGFFFTSTRTSTKYVV 514
Db      350 INLTSQSPYNSQNRPFEPACPEDFSQFQNDVAVSAFKLNQGAIFVPHNYSKATFFVVFV 409
QY      515 ASGEADVEMACPHLSGRGGRGGRK--RHEEBEDV-----HYQVPAKLSKREAVYLA 566
Db      410 TNGYVYAGMACPHLSRQSGSQSGQRDRRQDEESEEETFEQOQVAPLSPGDFVAPAP 469
QY      567 GHPVVFVSSGNENLLFAFGINAQNNHENPLAGREBNVLOQIEPQAMELAFAPRKVEE 626
Db      470 GHAIVTFPASKDQPLNAVAFGLNAQNNORIFLAGK-KULVQMSSEAKELSFQVPSKLVN 528
QY      627 SPNSODOSIFPPGRHOQOSPRSTKQOQPLVSTLDF 663
Db      529 IFNNDSEYFMSFSQQRQR---RDERRGNPLASTLDF 562

```

## RESULT 3

```

US-07-955-905A-23
; Sequence 23, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:

```

```

; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 587 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Gossypium hirsutum
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..587
; OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
US-07-955-905A-23

```

```

Query Match      30.4%; Score 1075; DB 1; Length 587;
Best Local Similarity 38.6%; Pred. No. 1, 1e-87;
Matches 231; Conservative 113; Mismatches 181; Indels 74; Gaps 14;

```

```

QY      76 EDPQTECOQCRRCQSGSGPRQOYQCRRC-RICEBEEBYNRQRPQOYEEQCHQ 134
Db      35 DDPKRYEDCRRCRQEMDRQKQEQQCEBCKSYGEKQDQNRHEDPQRYEECCQDEC- 93
QY      135 RAETPRIMQTCQOCRCERYEKKRQKQRYEEOQREDEKYEERKMEEDNKDPOQREY 194
Db      94 -RQDEERQRPQOQRC-----IKRFEQOQOQ-----SQRP 123
QY      195 EDCRRRCQOE--PQOQHOCQRCHEQORHGRGDMNPNR-----GSSGYEGEE 246
Db      124 QECQCHQDQDRERKQOQCVACGRKYOE-----NWRREBEBAEETTEGEQ 175

```

QY	247	QSDNPIYFPEBRLSTFRTEBGHISVLBNPYGSHKLRALKRYLVLLEANNPAFVLPFH	306
Db	176	QSHNPFHFRRRSFOSFREHEGFRVLQRFASHPIILRGINERLSILEANPTEVLPFH	235
QY	307	LDADAILVIGRGALXMHHDHNBRESVYNECGVIRIPAGTFEYLLNPDNNEBTHAKFL	366
Db	236	CDAEKIYLTNGRGITLFTTHEKESYVNPQGVAVWPAGSTVYLANODKEKLLIAVLH	295
QY	367	QTISTPGQYKEFPFPAQGNPEBYLSTFSKEILEALNTOTEKLRGVG-----QOREG	419
Db	296	RVVNPQREEEFPPAQSGRQPSYLAFRSHEILEPANTHSEQJDELFGGQSHRRQGGG	355
QY	420	VITRASQEOIRBLTDDSESRHMHIRGESSRGYPNLFNKRLYENKTYGOAYEVPEDY	479
Db	356	MFKRASQEOIRALSOEATPPR-----EKSGE--RFAFNLLYRTERYSONONGRFEACPPREF	409
QY	480	ROLQOMDLSVFLANTQCSMMGPFENRTSTKVVVVSGEADVMACPHLSGRRGCGGK	539
Db	410	ROLSINIVTSALQNLQSGISFVPHYNSKATFVVLVANGNGYEMAVSPHLPRQSGFEEBEE	469
QY	540	RHEEBEDV-----HYEQVRLARSKEEATVVLGHPVPEVVSNGENILLFPAG-----IN	588
Db	470	QOQEOQEHEERRSQGYRKIRSQLSRSDIPVPAHPFVTIFYAQNQNLBMRTGFLYANONIN	529
QY	569	KONHNENFLAGERNVLOQIEPOMELAPAPKXEVEESFNODOSIFPPGPPHQOQS	647
Db	530	PDHNRIFPAQGINYH--RQWDSJAKIACVGSRLVDEIFNNNPQOSYFVS--RQRPAS	586

```

RESULT 4
US-09-106-872A-4
; Sequence 4, Application US/09106872A
; Patent No. 6486311
; GENERAL INFORMATION:
; APPLICANT: Burks Jr., A. Wesley
; APPLICANT: Stanley, J. Steven
; APPLICANT: Cockrell, Gael
; APPLICANT: King, Nina E.
; APPLICANT: Sampson, Hugh A.
; APPLICANT: Helm, Ricki M.
; APPLICANT: Bannou, Gary A.
; TITLE OF INVENTION: Peanut Allergens and Methods
; FILE REFERENCE: HS 103 CIP
; CURRENT FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: PCT/US96/15222
; PRIOR FILING DATE: 1996-09-23
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Arachis hypogaea
FEATURE:
OTHER INFORMATION: Amino Acids 25-34 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 1
OTHER INFORMATION: Amino Acids 48-57 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 2
OTHER INFORMATION: Amino Acids 65-74 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 3
OTHER INFORMATION: Amino Acids 89-98 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 4
OTHER INFORMATION: Amino Acids 97-106 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 5
OTHER INFORMATION: Amino Acids 107-116 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 6
OTHER INFORMATION: Amino Acids 123-132 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 7
OTHER INFORMATION: Amino Acids 134-143 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 8
OTHER INFORMATION: Amino Acids 143-152 are Ara H 1 binding epitope,
OTHER INFORMATION: peptide 9
OTHER INFORMATION: Amino Acids 294-303 are Ara H 1 binding epitope,

```

:	OTHER INFORMATION:	peptide 10
:	OTHER INFORMATION:	Amino Acids 311-320 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 11
:	OTHER INFORMATION:	Amino Acids 325-334 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 12
:	OTHER INFORMATION:	Amino Acids 344-355 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 13
:	OTHER INFORMATION:	Amino Acids 393-402 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 14
:	OTHER INFORMATION:	Amino Acids 403-418 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 15
:	OTHER INFORMATION:	Amino Acids 461-470 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 16
:	OTHER INFORMATION:	Amino Acids 498-507 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 17
:	OTHER INFORMATION:	Amino Acids 525-534 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 18
:	OTHER INFORMATION:	Amino acids 539-548 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 19
:	OTHER INFORMATION:	Amino acids 551-560 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 20
:	OTHER INFORMATION:	Amino acids 559-568 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 21
:	OTHER INFORMATION:	Amino acids 578-587 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 22
:	OTHER INFORMATION:	Amino acids 597-606 are Ara H 1 binding epitope,
:	OTHER INFORMATION:	peptide 23

US-09-106-872A-4

Query Match	24.0%	Score 850.5	DB 4	Length 626
Best Local Similarity	34.4%	Pred. No. 1.7e-67		
Matches 212	Conservative 108	Mismatches 204	Indels 93	Gaps 20
QY	93	ESGPRQOQ----	CORCKEICEEEBEEYVRQHPQOQYEQCGMGCORRETEPR-----H	142
Db	26	KSPFYQKTEMPCANQRCQSCQGEEDDLKQK-----	ACSRCTKLEYPDRCVYDPGRGH	78
QY	143	MOTCOQRC--ERR-----	YEKKRKKOQKRYEQQREDEKYTEEMKEDNKDPQOR	192
Db	79	TGTTNORSPPGERIRGRGPRGDYDDDR--	QRRREGGHWGACPREREREED-WQPR--	133
QY	193	EYECORRRCEQOEPRQHQOQCLRCQEQHQGRGDDMMNPPRGSGRGRVEBEEGSDNPY		252
Db	134	--EDRRRRSHQO-PR-----	KLRPGREBE--OEWGPGSHVRLETSRNNPF	175
QY	253	YFDEKSLSTRTEBGMHSLVLENYGSKLRLAKNYLVLLLEANPNAFVLPETHLDADAI		312
Db	176	YFSPSRFSTRGNGNGRIRVLQRFQDSRGQONQNHRIYQILBAKPNTLVLPKADADNI		235
QY	313	LLVITGGKALMIMHNDRESYNLECGDVIRIPACTTFFILNRDNNERLHIKFLDTISTP		372
Db	236	LVIQOGQATLVVANGNNKNSFNLDGHALRIPSGISTYLNRHDQNQNLRAKISMPVMT		295
QY	373	GOYKEFPFAGQNEPRLYFSTFSKELLALTOTETKLGVF-----	GOQR---	417
Db	296	QGFEDFFPASSRDDOSYIQESFRNTLEAFALFENIRLVILLEENAGSGOEORGRKRST		355
QY	418	-----EGVITIRASQEOIRELTRDDSESRRWHIRRGESSRG--	PYLFNKKRPLYSNK	467
Db	356	RSENNEGVILVKVKEHEVELTKIAKS-----	VSKSGSEEGDITNPINLREGEDLENN	410
QY	468	YGOAYEYKPEBYR-OLQDMDSVFIANTQSGMMGPRFNTSTKVYVVAASEADVEMACP		526
Db	411	FGKLEFVAPDKKNPOLQDLDMMLTCVEIKEBALMLPHENSQAMVYLVNNKGTGNLELVAV		470
QY	527	HLSGRHGGRGGKHEHEEDVHYE---QYR---ARLSKREAIYVLACHPVVFSNGNEN		579
Db	471	RKEQQROR--REEBEDEDEBEGSNNENVARYRLAKEGDVFIMPANHPAIVANASSELH		527
QY	580	LLLPAPFGINAOHNHENFLAGERENVLOITEQOMELAFARAKVEYBSFNSQODSIFPFG		639
Db	528	LL--GFGINANNNRHIFLAGDKDNDVIDIEQADKLAFPGSGOEVEKIKNQKSHFSA		585

QY 640 PROHOOQSPRSTKQOOP 656  
 Db 586 RPOSOQSPSSPEKESP 602

## RESULT 5

US-07-955-905A-24  
 ; Sequence 24, Application US/07955905A  
 ; Patent No. 5770433  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
 ; TITLE OF INVENTION: PRECURSOR  
 ; NUMBER OF SEQUENCES: 28  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.25 (BPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/955,905A  
 ; FILING DATE: 21-JAN-1993  
 ; CLASSIFICATION: 435  
 ; INFORMATION FOR SEQ ID NO: 24:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 605 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; NAME/KEY: Protein  
 ; LOCATION: 1..605  
 ; OTHER INFORMATION: /note= "Vicilin from G. max"  
 ; US-07-955-905A-24

Query Match 23.7%; Score 838.5; DB 1; Length 605;  
 Best Local Similarity 31.7%; Pred. No. 1.9e-66;

Matches 198; Conservative 131; Mismatches 212; Indels 83; Gaps 16;

QY 72 YDNOEDPOTECOCORCRQOESGPRQOQCQRC-----KELCEEEYNRQRPQOQ 125  
 Db 27 YWEKENPKI--NKCLQSCNSERDSYRNOA-CHARCNLTKVEKEBCEBEGIPRRPRPQHP 83  
 QY 126 YBOCQCHCORRETE-----PRHMOTCOQRCEERYEKE-KRKOQRYEBOQREDEBK 175  
 Db 84 EREPOQPGKEDEDEQPRPIPRPRQPRQEBENHOREQEPKREKRGESSEDE- 142  
 QY 176 YEERKMEBNKADPOQREYEDCRRCRCEQEPROHQOQLRCRQORQHGRGDMMNPQRG 235  
 Db 143 -----DEDEQDERQFPF-----PRPHQKEERNEE-----DEDEQOR 177  
 QY 236 GSGRYEEGE--EEOSONPYFDEERSLSTRFTEBCHISVLNMFYRSKILALKYRLVL 293  
 Db 178 EEESESDSLRHKKNKKNPFLLFSNPFLLFKNQYGRIRVLOKRFNGRSQOLNLRDYRLLE 237  
 QY 294 LEANPAVFLPTHLADALILVIGRGALKMTHHNRRESYNLECGDVIRIPAGTFYILN 353  
 Db 238 FNSKENTLLLPNHADADYLILVINGTALISLVNNDSDSYRLQSDALRVSGCTTYVYN 297  
 QY 354 RNNRRLHIAKFLQISTPGQYKEFFPAGGQNPBEYLSLTFSEKILAAALNTQTEKRGVF 413  
 Db 298 PDNNENLRITLAIIVNKRGPRESFFLSTEAQOSYLQGFNRILIEASYDTKFEINKVL 357  
 QY 414 -----GOQR--EGVIRASQOIRELTRDDESNNHMRGGESRRPYLNFNRP 462  
 Db 358 FSRREGQGGQGBORLOESYIVELSKQITALSKRASS-----KRTISEDKPFNLRSDP 413  
 QY 463 LYSNKYGAYEVKPEPDYRQLODMDSVFIANTQSGMMGPENRSTKVVVVVAGSEADVE 522  
 Db 414 IYSNLDGKFFETTPKRNQRLDLDFISLIVMNEGALLPFFNSKAIYILVINGDANIE 473

QY 523 MACPHLSGRHGRGGK-----RHEEEDVHYEQVRLATSKREALIVLAGHPVYFVSSGN 577  
 Db 474 LV-----GLKEQOQOQOQEBQPLEKTRKRALSEQDIFVLPAGYVVV--NAT 519  
 QY 578 ENULLPFAIGINAKNNHNFAGRENNVLOQIEPQAMELAPAPRKEVESFNSQDQIFP 637  
 Db 520 SNLNFPAIGINAKNNHNFAGRENNVLOQIEPQAMELAPAPRKEVESFNSQDQIFP 579  
 QY 638 PGRHOOQSPRSTKQOQPLVSL 661  
 Db 580 DAQPKKKEGNGKRK--GPLSSIL 601

## RESULT 6

US-07-955-905A-25  
 ; Sequence 25, Application US/07955905A  
 ; Patent No. 5770433  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
 ; TITLE OF INVENTION: PRECURSOR  
 ; NUMBER OF SEQUENCES: 28  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.25 (BPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/955,905A  
 ; FILING DATE: 21-JAN-1993  
 ; CLASSIFICATION: 435  
 ; INFORMATION FOR SEQ ID NO: 25:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 571 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Pisum sativum  
 ; FEATURE:  
 ; NAME/KEY: Protein  
 ; LOCATION: 1..571  
 ; OTHER INFORMATION: /note= "Convicilin from P. sativum"  
 ; US-07-955-905A-25

Query Match 23.2%; Score 821.5; DB 1; Length 571;  
 Best Local Similarity 33.4%; Pred. No. 5.8e-65;

Matches 195; Conservative 110; Mismatches 184; Indels 95; Gaps 15;

QY 111 EEEYEVNRQRPDPOQYEQOCHQORRETEPRHMOTCOQRCEERYEKEKQKQK---RYE 166  
 Db 48 EGEKEKEKGEEMRPSYK--EENEERQ-----KYRQREKKEQKEVOPGRGR 93  
 QY 167 EQOREDEKYEEMKEEDNKNRDPQOREYEDCRRCRCEQEPROHQOQLRCRQORQHGRG 226  
 Db 94 WEREDEQYGEYEWRSQRRDEER-----AKLRHREERTGRD- 133  
 QY 227 GDMNPOQSGSGYEEGEEOSONPYFDEERSLSTRFTEBCHISVLNMFYRSKILRAL 286  
 Db 134 ---RHQREGEERESSEQEHNNPFLFSKNRFLTLFENENGHIRLQRFDRSDLFENL 189  
 QY 287 KNYRLVLEANPAVFLPTHLADALILVIGRGALKMTHHNRRESYNLECGDVIRIPRG 346  
 Db 190 QNRLVRYAKKHTITLPGHIDALILVINGKALITVLSYDRNSYNLERGDTTIKIPRG 249  
 QY 347 TTYVILNRNNRRLHIAKFLQISTPGQYKEFFPAGGQNPBEYLSLTFSEKILAAALNTQ 406  
 Db 250 TTSYLVNQDEEDIRVVDVILPVNRGKPEAF--GLSENKQNYLGFNSNILEASLNTKY 307  
 QY 407 ETKRGVF-----GOQRBEVITRAGQOIRELTRDDESNNHMRGGESRRHMRIRRG 447  
 Db 308 ETIEKVLLEBOEKQPOLDRKRRTQOGEERD-AIIKVSQOIEELRKLAKSSS---KKS 362

```

RESULT 7
US-09-424-283-1
; Sequence 1, Application US/09424283
; Patent No. 6437219
; GENERAL INFORMATION:
; APPLICANT: Grimes, et al.
; TITLE OF INVENTION: Sucrose binding proteins
; FILE REFERENCE: 4630-50206
; CURRENT APPLICATION NUMBER: US/09/424,283
; CURRENT FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: PCT/US98/10465
; PRIOR FILING DATE: 1998-05-21
; PRIOR APPLICATION NUMBER: US 60/047,568
; PRIOR FILING DATE: 1997-05-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO. 1
; LENGTH: 524
; TYPE: PRT
; ORGANISM: Glycine max
US-09-424-283-1

```

```
Db      377 KGHLOISCPHMS-----SRSHSKHDKSSP-SYHRISSDLKPGVFWVPGRHPVTIASNK 431
Qy      578 ENLLIFAGINQNHNHTLAGRERNVLOQIEPOMELAPAAKRKYVESF-----628
        |||||:::||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db      432 ENLMLICEVNARNDKMKTFTAGD-NIVASLDVAALAFNPSEMVNGVFLLQFLERK 490
        |||||:::||||:||||:||||:||||:||||:||||:||||:||||:
Qy      629 -----NSQDSIFFPFGRCHQQQSPPS 650
        :|||:::||||:||||:||||:||||:||||:||||:||||:
Db      491 LIGRLYLPHMKDKRKESFFFPFLPRERGRRA 522
        :|||:::||||:||||:||||:||||:||||:||||:||||:
```

Query Match	22.8%	Score 806.5	DB 4	Length 489
Best Local Similarity	35.4%	Pred. No. 1e-63		
Matches 173; Conservative	102	Mismatches	169	Indels 45
				Gaps 11

```

QY 179 AKMEDNDNRDP-----QOEYED-----CRRREOQEPROHOCQJRCREOQON 223
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 27 KUKETEVEDEBELVTCRHQOQORRYTESDKRTCLQOQDSMKOEKVEEBTEKREBH 86
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 224 GRGGMMNPNORGSGRGYEEGEEBEGSDNYPFDE-RSLSTRFTEBGHISVLENFYGRSKL 282
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 87 -----QOEHEEBEDENPYFEEDKDFSTRVETEGGSIRVLKFKTEKSKL 130
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 283 LRALKNYLVLLLEANNPAFVLPHTLDALILLVIGGRALKMHHNDNESTNLEGGDVTIR 342
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 131 LOGIENFPALILEAAHTFVSBRHFDSDSVLENKGRVILGVIRESETEKITLLEGDMITH 190
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 343 IPAGTFPLINRDNNERLTHIAKFLQTTISPOQYKEFFPAGQONPERPYLSTESKELLEAL 402
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 191 IPAGPLPLIVNRDEDEKULLMMLHIVSTPOKFEFFPQGRGDRPSVLSANSMVNLQAL 250
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 403 NTQTEKLRGVFGQOREGVIIPASQEQITELTRDSESHMHIIKRGGESSRGCPYALFNKRP 462
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 251 QTPKQKLERLTFNOQNEGSIKPRISRRVYALA-PTKSSWMFP--GGE-SKAOFNFSKRP 306
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 463 LYSNNGYQAYEVEKPEPDYRO-LODMDLAFVIANVTGSGMMGFEFNSTRKVVVVASGEADV 521
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 307 TFSNGYGLTVGPDDEKSWLQRLNMLTFNNITORSSTIHYNSHAKRIKALVMDGRGHL 366
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 522 EMACPHLSGRHQRGGRGKRHEEBEDVHYEQVBARLSKEALIVLAGHFVVPVSGNENLL 581
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 367 QISCPHMSRSRDSK-----HDKSPSYHRISADLKPMQMVFPVPGHFVVIASKEVILL 420
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 582 LEAFGINNONHNENLAGERNVLOICIPOMELALFAAPRKVEEESFSSOOSIIFPPGR 641
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 421 IICEPVNRDKKFLTFAGKD-NIVSLLNVAKELAFNIP-SEMNVGVSERKESLFFPEEL 478
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 642 OHQOQSPRS 650
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 479 PSEBERGRA 487
      : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

[illegible]

```

RESULT 11
US-09-424-283-4
; Sequence 4, Application US/09424283
; Patent No. 6437219
; GENERAL INFORMATION:
; APPLICANT: Grimes, et al.
; TITLE OF INVENTION: Sucrose binding proteins
; FILE REFERENCE: 4630-50206
; CURRENT APPLICATION NUMBER: US/09/424,283
; CURRENT FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: PCT/US98/10465
; PRIOR FILING DATE: 1998-05-21
; PRIOR APPLICATION NUMBER: US 60/047,568
; PRIOR FILING DATE: 1997-05-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Glycine max
US-09-424-283-4

Query Match      19.4%; Score 700.5; DB 4; Length 409
Best Local Similarity 36.5%; Pred. No. 2.5e-54;

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Db	80	ADFLVLVLSGATLTTLVKSNDNRNSNLERGAIKLPGASIVYFANRDNEERVLDAIP	139
Qy	369	ISTGQVKEFPFAGQONEPEYLFSTFSKEILEAALNTOTKLRGVFGQR-----	417
Db	140	VNKGQQLQSFLISGTQNKQSSLSGFSKNIILEAFATNYEETIEKVLJEOQEGPQRHSLK	199
Qy	418	-----EGYIRASQCIHELTRDBESRHHMIRCGESRGYNLPNKRPLYSNKKY	469
Db	200	DRQGINEENYIVKYSRDIIELSKNKASS---KKSVSSESGPFNRSRPITYSNKFG	255
Qy	470	QAYEKPEDVYQLODMDSVFLIANTQSGMMGFPFNTSTKVVVAVASGADVEMACPILS	529
Db	256	KFFETTPKNOLODDLFVNSVDIKVSSLLIPNYSALYIVYTEKGDFELVGQR--	313
Qy	530	GRHGGRGGKHEEBEDV--HYEQVRAFLSKREALVLVLAGHPVYFVSSGNETLLFARGI	587
Db	314	NENGGKENDKEBQEEBETSQVQLYRATLSGDVIVIAGHPVALNASSDLNLI--GGGI	371
Qy	568	NAQNHNENFLAGERBNVLOQIEPQAMELAFAPKREVE	625
Db	372	NAENNERNFLAGEEDNVISOVERPYKELAFPGSSHEVD	409
RESULT 13			
US-09-323-195A-17			
; Sequence 17, Application US/09323195A			
; Patent No. 6462257			
; GENERAL INFORMATION:			
; APPLICANT: Pullman, Gerald			
; APPLICANT: Caltney, John			
; APPLICANT: Petter, Rauljan			
; TITLE OF INVENTION: VICILIN-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND			
; TITLE OF INVENTION: METHODS OF USING THE SAME			
; FILE REFERENCE: IPST0009			
; CURRENT APPLICATION NUMBER: US/09/323,195A			
; CURRENT FILING DATE: 1999-06-01			
; NUMBER OF SEQ ID NOS: 19			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 17			
; LENGTH: 523			
; TYPE: PRT			
; ORGANISM: Pinus taeda			
US-09-323-195A-17			
Query Match 19.6%; Score 692.5; DB 4; Length 523;			
Best Local Similarity 35.4%; Pred. No. 1,9e-53;			
Matches 155; Conservative 82; Mismatches 166; Indels 35; Gaps 10			
Qy	223	HGRGDMNPNPQSGSGRYEBEGEESQDNPYFDEHSLSLTFRTTEBGIISVENFYGRSL	282
Db	40	HGRG-----HGRREBERENPVYFHSDFRMRASSDAGEIRALPNFGEASEL	86
Qy	283	LRLKNYRLVLEAPNAPVLPETHLDAILLVGGKALKMIHNDNRESYVLECGDVIR	342
Db	87	LEGISKYEVTOIEKRPNTVMLPHYLDATWIIYVGGREYIAYVHONELVKRLKEGDVFG	146
Qy	343	IPAGTFPLIRNDNNEBHIAKFLQTSIT-DGYKPEFPAGQONEPEYLFSTFSKEILEA	401
Db	147	VPSGHTFLVNNDDNSIRLSLTLVSTNGEHEEPYVAGGRNPDETVYSAFSDVDLENA	206
Qy	402	LNTQTEKLRGVFGQ--QREGVIRASQEOIRELTED-----DSESRHHIRRGESSRGP	454
Db	207	FNTVNVEARHFPVPIHERESYSM-ANEQIRHEMLRKQGFSAESMSASBHPK-----P	257
Qy	455	YNLFNKRPLYSNKKYGQAYEVKRPEDYRQLQMDLSVLIANTQSGMMGFPFNTSTKVVV	514
Db	258	FNLRQKQEDFENDNGRFTRAQPNENPLLDADVTAAGFVNLPGTWATPASHNTKATSIIV	317
Qy	515	ASGADVEMACPILSGRHGGRGGKHEEBEDVHYEQVRAFLSKREALTVVLAGHPVYFS	574
Db	318	TQEGRIEMACPIL-GQHG--WSSRRKGDEINQYRALLRIGTVIVVPAHGPIETEIA	374
Qy	575	SGNETLLFARGINAQNHNENFLAGERBNVLOQIEPQAMELAFAPR-KEVEESFNQDO	633

647 SPRSTK 652



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Db      1  MAINSNLCSLLFLSLSTVSLAESFDRQYECKRCQMLTSGMRCVSGCD 60
Qy      61  KRFEEDIDWSKYNDODPDQTDCCQCCORRCQOESGPRQOQYCCORCKEICEEBEYNROR 120
Db      61  KRFEEDIDWSKYNDODPDQTDCCQCCORRCQOESGPRQOQYCCORCKEICEEBEYNROR 120
Qy      121  DPOOQYECOCORCQHETEPHMQTCQORCERRYEKEREKQKRYEBQOREDEKYEERM 180
Db      121  DPOOQYECOCORCQHETEPHMQTCQORCERRYEKEREKQKRYEBQOREDEKYEERM 180
Qy      181  KEEDNKDPOQREYEDCRRRCQEQEPQOYOCQRCREQORQHGRGDLINPORGSGRY 240
Db      181  KEEDNKDPOQREYEDCRRRCQEQEPQOYOCQRCREQORQHGRGDLINPORGSGRY 240
Qy      241  BEGEKOSDNPYFDERSLSTRFTEBEGHISYLENFGRSKLLRALKNYRLVLLLEANPNA 300
Db      241  BEGEKOSDNPYFDERSLSTRFTEBEGHISYLENFGRSKLLRALKNYRLVLLLEANPNA 300
Qy      301  FVLPTHLDADAILVLTGGRGALKMTHRDNRRESYNLECGDVRIPAGTTFYILINRDNNE 360
Db      301  FVLPTHLDADAILVLTGGRGALKMTHRDNRRESYNLECGDVRIPAGTTFYILINRDNNE 360
Qy      361  HIAKFLQITSTPGQYKEFFPAGQNPDEPYLSTFSKEILEALNTQAERLRGVLGQOREGV 420
Db      361  HIAKFLQITSTPGQYKEFFPAGQNPDEPYLSTFSKEILEALNTQAERLRGVLGQOREGV 420
Qy      421  IISASQEOIRRELTDDSSRRMHIRRGESSRGPNLFNKRPVSNKYGQAYEVKPEBYR 480
Db      421  IISASQEOIRRELTDDSSRRMHIRRGESSRGPNLFNKRPVSNKYGQAYEVKPEBYR 480
Qy      481  QLODMDVSVFIANTTQSGMMGPFNTRSTKVVVVASGEADVEMACPHLSGHRGGRGGR 540
Db      481  QLODMDVSVFIANTTQSGMMGPFNTRSTKVVVVASGEADVEMACPHLSGHRGGRGGR 540
Qy      541  HEEEDVHYEQVKARLSKREAIIVPVGHPVVFSSGNENLLFAGINQNNHENFLAGR 600
Db      541  HEEEDVHYEQVKARLSKREAIIVPVGHPVVFSSGNENLLFAGINQNNHENFLAGR 600
Qy      601  ERNVLOOIEPQAMELAFAPRKEVEELFNSODESIFPPGPRHOQOOSRSTKQOQPLVSI 660
Db      601  ERNVLOOIEPQAMELAFAPRKEVEELFNSODESIFPPGPRHOQOOSRSTKQOQPLVSI 660
Qy      661  LDFVGF 666
Db      661  LDFVGF 666

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APPD

```

RESULT 2
US-10-147-095-3
; Sequence 3, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO. 3
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:

```

```

; NAME/KEY: SIGNAL
; LOCATION: (1)...(28)
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (29)...(666)
US-10-147-095-3

```

Query Match 100.0%; Score 3532; DB 14; Length 666;  
 Best Local Similarity 100.0%; Pident. No. 2,5e-265;  
 Matches 666; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy      1  MAINSNLCSLLFLSLSTVSLAESFDRQYECKRCQMLTSGMRCVSGCD 60
Db      1  MAINSNLCSLLFLSLSTVSLAESFDRQYECKRCQMLTSGMRCVSGCD 60
Qy      61  KRFEEDIDWSKYNDODPDQTDCCQCCORRCQOESGPRQOQYCCORCKEICEEBEYNROR 120
Db      61  KRFEEDIDWSKYNDODPDQTDCCQCCORRCQOESGPRQOQYCCORCKEICEEBEYNROR 120
Qy      121  DPOOQYECOCORCQHETEPHMQTCQORCERRYEKEREKQKRYEBQOREDEKYEERM 180
Db      121  DPOOQYECOCORCQHETEPHMQTCQORCERRYEKEREKQKRYEBQOREDEKYEERM 180
Qy      181  KEEDNKDPOQREYEDCRRRCQEQEPQOYOCQRCREQORQHGRGDLINPORGSGRY 240
Db      181  KEEDNKDPOQREYEDCRRRCQEQEPQOYOCQRCREQORQHGRGDLINPORGSGRY 240
Qy      241  BEGEKOSDNPYFDERSLSTRFTEBEGHISYLENFGRSKLLRALKNYRLVLLLEANPNA 300
Db      241  BEGEKOSDNPYFDERSLSTRFTEBEGHISYLENFGRSKLLRALKNYRLVLLLEANPNA 300
Qy      301  FVLPTHLDADAILVLTGGRGALKMTHRDNRRESYNLECGDVRIPAGTTFYILINRDNNE 360
Db      301  FVLPTHLDADAILVLTGGRGALKMTHRDNRRESYNLECGDVRIPAGTTFYILINRDNNE 360
Qy      361  HIAKFLQITSTPGQYKEFFPAGQNPDEPYLSTFSKEILEALNTQAERLRGVLGQOREGV 420
Db      361  HIAKFLQITSTPGQYKEFFPAGQNPDEPYLSTFSKEILEALNTQAERLRGVLGQOREGV 420
Qy      421  IISASQEOIRRELTDDSSRRMHIRRGESSRGPNLFNKRPVSNKYGQAYEVKPEBYR 480
Db      421  IISASQEOIRRELTDDSSRRMHIRRGESSRGPNLFNKRPVSNKYGQAYEVKPEBYR 480
Qy      481  QLODMDVSVFIANTTQSGMMGPFNTRSTKVVVVASGEADVEMACPHLSGHRGGRGGR 540
Db      481  QLODMDVSVFIANTTQSGMMGPFNTRSTKVVVVASGEADVEMACPHLSGHRGGRGGR 540
Qy      541  HEEEDVHYEQVKARLSKREAIIVPVGHPVVFSSGNENLLFAGINQNNHENFLAGR 600
Db      541  HEEEDVHYEQVKARLSKREAIIVPVGHPVVFSSGNENLLFAGINQNNHENFLAGR 600
Qy      601  ERNVLOOIEPQAMELAFAPRKEVEELFNSODESIFPPGPRHOQOOSRSTKQOQPLVSI 660
Db      601  ERNVLOOIEPQAMELAFAPRKEVEELFNSODESIFPPGPRHOQOOSRSTKQOQPLVSI 660
Qy      661  LDFVGF 666
Db      661  LDFVGF 666

```

```

RESULT 3
US-09-331-631A-1
; Sequence 1, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; CURRENT FILING DATE: 1999-06-21

```

```

1 PRIOR APPLICATION NUMBER: PCT/AU97/00874
2
3 PRIOR FILING DATE: 1997-12-22
4
5 PRIOR APPLICATION NUMBER: AU PO 4275
6
7 PRIOR FILING DATE: 1996-12-20
8
9 NUMBER OF SEQ ID NOS: 40
10
11 SOFTWARE: FastSeq for Windows Version 3.0
12
13 SEQ ID NO 1
14
15 LENGTH: 666
16
17 TYPE: PRT
18
19 ORGANISM: Macadamia integrifolia
20
21 OS-09-311-631A-1

```

Query Match	96.6%	Score 3412;	DB 9;	Length 666;
Best Local Similarity	96.1%;	Pred. No. 5.1e-256;		
Matches 640; Conservative	12;	Mismatches 15;	Indels 0;	Gaps 0;

Qy	I	MAINTNSLCSLLFLSLFLSLFLSLSTTVSLAEEPRROVEBCKQCMOLETSGMRCVSCD	60
Db	1	MAINTNSLCSLLFLSLFLSLSTTVSLAEEBPRROVEBCKQCMOLETSGMRCVSCD	60
Qy	61	KREFEEDIDWSKYNOBDDPQDQCQCCORRCROQOESPPQOQYCORCKEICEESEYNROR	1200
Db	61	KREFEEDIDWSKYNOBDDPQTEBQCCQCCORRCROQOESPPQOYCORCKEICEESEYNROR	1200
Qy	121	DPOOQYEOCERCORHETPRHQTCCORCERYKEKRXKQKRYEEOQREDEBKEYERM	1800
Db	121	DPOOQYEOCCKHCCORRETEPRHQTCCQRCERYKEKRXKQKRYEEOQREDEBKEYERM	1800
Qy	181	KEEDNRKDDPQOREYEDCRRCEBOEPROOYOCORRCREOOROHGGGLINPOEGSGGRY	2400
Db	181	KEEDNRKDDPQOREYEDCRRCEBOEPROOQOCLCRCEOOROHGGGMNPOEGSGGRY	2400
Qy	241	EEGEEKOSDNPYYFEDERSLSTRPRTBEGHSVLENFYGRSKLLRALKNYRLVLEANPNA	3000
Db	241	EEGEEKOSDNPYYFEDERSLSTRPRTBEGHSVLENFYGRSKLLRALKNYRLVLEANPNA	3000
Qy	301	FVLPETHLDADALLLVYGRGALKMTRDRNRESYNLECGDVIRIPAGTTFYLINRDNNERL	3600
Db	301	FVLPETHLDADALLLVYGRGALKMTHDRNRESYNLECGDVIRIPAGTTFYLINRDNNERL	3600
Qy	361	HIAKPLQTTSTPGQYKEFPFAGGONPEPYLSTFSPKEILLEALNTOAERLREVLDOQREGV	4200
Db	361	HIAKPLQTTSTPGQYKEFPFAGGONPEPYLSTFSPKEILLEALNTOETKLRGVFQOQREGV	4200
Qy	421	IISASGOIRELTRDDBESSRWHMIRRGESBSRGPNLFNKSKPLYSNKYGAQYEVKPEDYR	4800
Db	421	IIPASGOIRELTRDDBESSRWHMIRRGESBSRGPNLFNKSKPLYSNKYGAQYEVKPEDYR	4800
Qy	481	QLODMOVSVIANITOGSGMMGPFPNTRSTKYVNVVVASGADVEMACPHLSGHHGRBCKGR	5400
Db	481	QLODMDLSVIANITOGSGMMGPFPNTRSTKYVNVVVASGADVEMACPHLSGHHGRGGGGR	5400
Qy	541	HEEEDDHVYEQVAKRLSKREALIVPVGHVNVVSSGNENLLFAFGINAQNNHENFLAGR	6000
Db	541	HEEEDDHVYEQVAKRLSKREALIVVLAHHVYVSSGNENLLLFAGGINAQNHNENFLAGR	6000
Qy	601	ERNVLQOIEPQAMELAPAPARKVEBELFNSQDESIFFGPGRHOQOOSRSTKYOOPLVSI	6600
Db	601	ERNVLQOIEPQAMELAPAPARKVEBFSNSQDOSIFFGPGRHOQOOSRSTKYOOPLVSI	6600
Qy	661	LDFVGF 666	
Db	661	LDFVGF 666	
RESULT 4			
US-10-147-095-1			
: Sequence 1, Application US/10147095			
: Publication No. US20030171274A1			
GENERAL INFORMATION:			
: APPLICANT: Mameez, John M.			
: APPLICANT: Marcus, John Paul			
: APPLICANT: Goulter, Kenneth C.			

```

1  APPLICANT: Green, Jodie L.
2  TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
3  FILE REFERENCE: CUL2LN23.001APC
4  CURRENT APPLICATION NUMBER: US/10/147,095
5  PRIOR FILING DATE: 2002-05-15
6  PRIOR APPLICATION NUMBER: US/09/331,631A
7  PRIOR FILING DATE: 1999-06-21
8  PRIOR APPLICATION NUMBER: PCT/AU97/00874
9  PRIOR FILING DATE: 1997-12-22
10 PRIOR APPLICATION NUMBER: AU PO 4275
11 PRIOR FILING DATE: 1996-12-20
12 NUMBER OF SEQ ID NOS: 40
13 NUMBER OF SEQ ID NOS: 40
14 SEQ ID NO: 1
15 LENGTH: 666
16 TYPE: PRT
17 ORGANISM: Macadamia integrifolia
18 UN-147-095-1

```

Query Match	96.6%	Score 3412;	DB 14;	Length 666;
Best Local Similarity	96.1%	Pred. No. 5.1e-256;		
Matches 640;	Conservative 12;	Mismatches 14;	Indels 0;	Gaps 0

[illegible]

```

US-09-331-631a-5
; Sequence 5, Application US/09331631A
; Patient No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CUIJN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)...(625)
; OTHER INFORMATION: Partial mature peptide
US-09-331-631a-5

```

```

Query Match      91.0%; Score 3215; DB 9; Length 625;
Best Local Similarity 96.6%; Pred. No. 9.2e-241;
Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 42 QCMQLETSQGMRCVSCQDRFEEDIDWSKYNDQDDPQTDCCQRCRQESGPPQOY 101
Db 1 QCMQLETSQGMRCVSCQDRFEEDIDWSKYNDQDDPQTDCCQRCRQESGPPQOY 60

QY 102 CORCKEICEEBEENRQDPQOYECOCORHETPRMOTCCQRCERYEKERKQ 161
Db 61 CORCKEICEEBEENRQDPQOYECOCORHETPRMOTCCQRCERYEKERKQ 120

QY 162 QKRYEEOQREDEKEYEEMKEDNKRDPQOREYEDCRRRCQOEPRQOYCCORRCQOOR 221
Db 121 QKRYEEOQREDEKEYEEMKEDNKRDPQOREYEDCRRRCQOEPRQOYCCORRCQOOR 180

QY 222 QHGRGDDLINPQGGSGRYEEGEEKSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 281
Db 181 QHGRGDDLINPQGGSGRYEEGEEKSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 240

QY 282 LIRALKNYRLVLEANPNFVLPTHLDADAILVTGGRGALKMIHRDNRESYNLECGDVI 341
Db 241 LIRALKNYRLVLEANPNFVLPTHLDADAILVTGGRGALKMIHRDNRESYNLECGDVI 300

QY 342 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 401
Db 301 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 360

QY 402 LNTQAEIRLQVLAQOREGVIIISASQOQIRLELTRDSESRWHIRRGESSESGPNLFPNKR 461
Db 361 LNTQAEIRLQVLAQOREGVIIISASQOQIRLELTRDSESRWHIRRGESSESGPNLFPNKR 420

QY 462 PLYSKKYGQAYEVKPEDYROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 521
Db 521 PLYSKKYGQAYEVKPEDYROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 480

QY 522 EMACPHLSGRHGRGGRKREHEEDVHYEQVKARLSKREAIIVVPVGHPIVVFSSGNENLL 581
Db 581 EMACPHLSGRHGRGGRKREHEEDVHYEQVKARLSKREAIIVVPVGHPIVVFSSGNENLL 540

QY 541 LFAFGIQAQNNHNEFLAGREENVLQOTIEPQAMEIAFAAPRKAYEBELFNSQDESIFPPGPR 641
Db 641 LFAFGIQAQNNHNEFLAGREENVLQOTIEPQAMEIAFAAPRKAYEBELFNSQDESIFPPGPR 600

QY 642 QHQQSSRSTKQQQPLVSLIDFVG 666

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Db 601 QHQQSSRSTKQQQPLVSLIDFVG 625

RESULT 6
US-10-147-095-5
; Sequence 5, Application US/10147095
; Publication No. US20030171274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CUIJN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)...(625)
; OTHER INFORMATION: Partial mature peptide
US-10-147-095-5

Query Match      91.0%; Score 3215; DB 14; Length 625;
Best Local Similarity 96.6%; Pred. No. 9.2e-241;
Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

QY 42 QCMQLETSQGMRCVSCQDRFEEDIDWSKYNDQDDPQTDCCQRCRQESGPPQOY 101
Db 1 QCMQLETSQGMRCVSCQDRFEEDIDWSKYNDQDDPQTDCCQRCRQESGPPQOY 60

QY 102 CORCKEICEEBEENRQDPQOYECOCORHETPRMOTCCQRCERYEKERKQ 161
Db 61 CORCKEICEEBEENRQDPQOYECOCORHETPRMOTCCQRCERYEKERKQ 120

QY 162 QKRYEEOQREDEKEYEEMKEDNKRDPQOREYEDCRRRCQOEPRQOYCCORRCQOOR 221
Db 121 QKRYEEOQREDEKEYEEMKEDNKRDPQOREYEDCRRRCQOEPRQOYCCORRCQOOR 180

QY 222 QHGRGDDLINPQGGSGRYEEGEEKSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 281
Db 181 QHGRGDDLINPQGGSGRYEEGEEKSDNPPYFDEBSLSTRFTEEGHISVLENFYGRSK 240

QY 282 LIRALKNYRLVLEANPNFVLPTHLDADAILVTGGRGALKMIHRDNRESYNLECGDVI 341
Db 241 LIRALKNYRLVLEANPNFVLPTHLDADAILVTGGRGALKMIHRDNRESYNLECGDVI 300

QY 342 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 401
Db 401 RIPAGTTFYLINRDNNEERLHIAKFLQTIISTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 360

QY 462 PLYSKKYGQAYEVKPEDYROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 521
Db 521 PLYSKKYGQAYEVKPEDYROLQDMDVSVFIANTTQSGMMGPFENTRSTKVVAASGEADV 480

QY 522 EMACPHLSGRHGRGGRKREHEEDVHYEQVKARLSKREAIIVVPVGHPIVVFSSGNENLL 581

```

DB 481 EMACHLSGRHGRGGGKHEEHEEYHYQVAPRLSKREAVIVLAGHPVVFVSSGNENLL 540  
QY 552 LFAFGINAGNNHNFPLAGERNVLOQIEFOAMELAPAPRKEVEELFNSODESIFPPGPR 641  
DB 541 LEAFGINAGNNHNFPLAGERNVLOQIEFOAMELAFAPRKEVEELFNSODESIFPPGPR 600  
QY 642 OHQOOSRSSTKQOQPLVSTLDFVGF 666  
DB 601 OHQOOSRSSTKQOQPLVSTLDFVGF 625

RESULT 7  
US-09-331-631A-8

Sequence 8, Application US/0931631A  
Patent NO. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-09-331-631A-8

Query Match 31.3%; Score 1105.5; DB 9; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.7e-77;  
Matches 233; Conservative 113; Mismatches 174; Indels 87; Gaps 14;

QY 76 DDPQTDCCQCCRRCCQESGPRQOQYCCRCCKEICEEHEEYHYROR--DPQOQYEOCCERC 133  
DB 35 DDPKRYEYDCRRRCMDTDRGQKEQOCCESCKSYGEXKQOQRHNPEDPQRKYEECCQDC 94  
QY 134 QHETEPHMQTCOQRCERRYEKKRQOQRYEBOQRDEDEKYEERMKEDNKDPQORE 193  
DB 95 R--QOEBRQOPOCQORCLKRFEOEQO-----SQOQ 123  
QY 194 YEDCRRRCQOQ--PRQOQOCCRCREOQROHGRGDDLINPORG-----GSGRYEEGBE 245  
DB 124 FOECQOHCQOQORPEKQOQVRECEKYO-----NPRGEREEBAEETEGBEQ 175  
QY 246 KQSDNPPYFDEBSLSTRFTTEGHISVLENFYGSKLRLKKNYLVLEAPNAPFVLP 305  
DB 176 EGSNHPFHHRHSFOSRFRHEHGNFRVLORFASRHPILRGINEFRLSILEANPNTFVLPH 235  
QY 306 HLDADAILLVGGRGALKMIRHNDRESYNLECGDVIRIPAGTFYLLINDNNEHLIAKF 365  
DB 236 HCDAEKIVLVNIGRGLTFLTHENKESYIVPGVVVVPAGSTVYLANDNKEKLIIVL 295  
QY 366 LOTISTPGQYKEFPFAGGONPEPYLSTFSKEITLALNTQARLGLVG-----QORE 418  
DB 236 HRPVNNPQGFEEFPFAGGQRPQSYLRAPSRILBPFTNRSBQDLBFLGGRQSRROQOQ 355  
QY 419 GYIISASQOIRLRLTRDSESRMHIRGESSRGPYULFNKRPLYSNKYQAYEVKPED 478  
DB 356 GMPFRASQOIRALSQEATSPR-----EKSGE--RFAFNLLSQTPRYSNONGFFACPE 409  
QY 479 YQLODMVSVFIANTTQSGMMGPFNTRSTKYVVVVASGEADVACPLSGRHGRGG 538  
DB 410 FQOLDINVTVALQINQSIIFVPHYNSKATFVILTEGNGYAEWVSPILP-----RQSS 464  
QY 539 KHEEBEDV-----HYEQVAKRLSKREAVIVPVGHPVVFVSSGNENLLPAP 585

DB 465 YEEEBEEDBEBOQEEBERRSGQYKIRSRSGDIFVVPANFVTVAISONQNLRTGCF 524  
QY 586 G-----INAGNNHNFPLAGERNVLOQIEFOAMELAPAPRKEVEELFNSODESIFPPGPR 640  
DB 525 GLYNQINPDHNRIFVAGKINH-V-RQWDSQAKELAFVGSRLVDEIRNSNQESYFVS- 582  
QY 641 RQHQOOS 647  
DB 583 RQRCRAS 589

RESULT 8  
US-10-147-095-8

Sequence 8, Application US/10147095  
Publication No. US20030171274A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-10-147-095-8

Query Match 31.3%; Score 1105.5; DB 14; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.7e-77;  
Matches 233; Conservative 113; Mismatches 174; Indels 87; Gaps 14;

QY 76 DDPQTDCCQCCRRCCQESGPRQOQYCCRCCKEICEEHEEYHYROR--DPQOQYEOCCERC 133  
DB 35 DDPKRYEYDCRRRCMDTDRGQKEQOCCESCKSYGEXKQOQRHNPEDPQRKYEECCQDC 94  
QY 134 QHETEPHMQTCOQRCERRYEKKRQOQRYEBOQRDEDEKYEERMKEDNKDPQORE 193  
DB 95 R--QOEBRQOPOCQORCLKRFEOEQO-----SQOQ 123  
QY 194 YEDCRRRCQOQ--PRQOQOCCRCREOQROHGRGDDLINPORG-----GSGRYEEGBE 245  
DB 124 FOECQOHCQOQORPEKQOQVRECEKYO-----NPRGEREEBAEETEGBEQ 175  
QY 246 KQSDNPPYFDEBSLSTRFTTEGHISVLENFYGSKLRLKKNYLVLEAPNAPFVLP 305  
DB 176 EGSNHPFHHRHSFOSRFRHEHGNFRVLORFASRHPILRGINEFRLSILEANPNTFVLPH 235  
QY 306 HLDADAILLVGGRGALKMIRHNDRESYNLECGDVIRIPAGTFYLLINDNNEHLIAKF 365  
DB 236 HCDAEKIVLVNIGRGLTFLTHENKESYIVPGVVVVPAGSTVYLANDNKEKLIIVL 295  
QY 366 LOTISTPGQYKEFPFAGGONPEPYLSTFSKEITLALNTQARLGLVG-----QORE 418  
DB 236 HRPVNNPQGFEEFPFAGGQRPQSYLRAPSRILBPFTNRSBQDLBFLGGRQSRROQOQ 355  
QY 419 GYIISASQOIRLRLTRDSESRMHIRGESSRGPYULFNKRPLYSNKYQAYEVKPED 478  
DB 356 GMPFRASQOIRALSQEATSPR-----EKSGE--RFAFNLLSQTPRYSNONGFFACPE 409  
QY 479 YQLODMVSVFIANTTQSGMMGPFNTRSTKYVVVVASGEADVACPLSGRHGRGG 538

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Db      410 TDEGVGYAOMACPHLSKQSQSQSGQDRREQEESEETFEFGFQYVAFLPSGDFVAFPA 463
QY      567 GHPEVTVSSGNENILLFAGINAAQNHNHFLAGR 600
Db      470 GHAVTFEASKDQPLNAVAFLGNAQNNGRI FLAGR 503

RESULT 10
US-10-147-095-7
; Sequence 7, Application US/10147095
; Publication No. US200201725

```

```

RESULT 9
US-09-331-631A-7
; Sequence 7, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23_001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AUS7/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FaastSEQ for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 525
; TYPE: PRT
; ORGANISM: Theobroma cacao
US-09-331-631A-7

```

```

RESULT 10
US-10-147-095-7
/ Sequence 7, Application US/10147095
/ Publication No. US2003017274M1
/ GENERAL INFORMATION:
/ APPLICANT: Manners, John M.
/ APPLICANT: Marcus, John Paul
/ APPLICANT: Goulter, Kenneth C.
/ APPLICANT: Green, Jodie L.
/ TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
/ FILE REFERENCE: CUL1N23.001APC
/ CURRENT APPLICATION NUMBER: US/10/147,095
/ CURRENT FILING DATE: 2002-05-15
/ PRIOR APPLICATION NUMBER: US/05/331,631A
/ PRIOR FILING DATE: 1999-06-21
/ PRIOR APPLICATION NUMBER: PCT/AU97/00874
/ PRIOR FILING DATE: 1997-12-22
/ PRIOR APPLICATION NUMBER: AU PO 4275
/ PRIOR FILING DATE: 1996-12-20
/ NUMBER OF SEQ ID NOS: 40
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 7
/ LENGTH: 525
/ TYPE: PR1
/ ORGANISM: Theobroma cacao
US-10-147-095-7

```

```

Query Match      29.3%; Score 1036; DB 9; Length 525;
Best Local Similarity 41.4%; Prid. No.9..9e-72;
Matches 213; Conservative 91; Mismatches 156; Indels 54; Gaps 11.

QY      109  ICEEEBYNR--QRPPQOYEOCCQRCORHNEPHEPHMTCOORCEERYEKKRQKRY 165
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      22  LCGVASAYRKQYERDPROYEQCQRCCESEATERRBQRCQRCER-----EY 70
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      166  EEOQREDEKEYESPMKEBNKRDPOQREYEDCRRCEQOE--PRQOYOCRRCEQORH 223
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      71  KQOQROQBEEL-----QROYOOCQRCQOQOQORQOQOQRCQKCMQOYEQ 116
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      224  GRCGLINPQRCGSGRYEEGEEKSDNPYEDF--SLSTRPYTEGHSVLENYGSKL 282
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      117  ER-GHEHYHNHKKRSEBEEGQKNNPYFPFKRRSPQTRRDEGNFKILQRAENSPP 175
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      283  LRALKNYRLVLEAPNPAFVLPTHLDAAILLYTGGGALKMHIRDNRESYNTLCEGDVIR 342
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      176  LKGINDRYLFAMFENPNPFILPHCDMAITFVNGKTTITFVHEKKESYNVQRTGTVS 235
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      343  IPAGTFELIRDNNEERLHIKLTQITSTPGQYKEFPAGQVNEPVLSTFSKEILAEAL 402
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      236  VPASTYVVVSQDQOEKLTITAVLALPVNSPKELYFPFPAKNKPNESYYGAFSTVELTAYF 295
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      403  NTOAERLRGVLGQOR-----EGVLIISAQOEIRLRTDDBESRRMHIRGESSRGP 454
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      296  NTQREKLEILIEEQRQKQOQGGQGMFRKAKPEQIRALISQQAISPR---HRRGE--RLA 349
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      455  YNLFNKRPPLTKSNKYGAYVEKPEDYKROLQMDYVSFANIITGSGNMGPFFNTRSTVVY 514
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      350  INLTSQSPYVSNQGRFFECAPEDFSQFOFMDMDVAVASFKLNGCALIVPHYNSKATFFVVY 409
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      515  ASGEADVENACPHLSGRHGRRGRGK--RHEEEDY-----HYEQYKARLSGREALIVPV 566
          : : : : : : : : : : : : : : : : : : : : : : : : : : : :

```

[illegible]

Db 470 GHAUTFASXKQPLNAVAFGIQAONNRIFLAGR 503

## RESULT 11

US-10-264-303-3  
; Sequence 3, Application US/10264303  
; Publication No. US20030124060A1  
; GENERAL INFORMATION:

APPLICANT: Roux, Kenneth

APPLICANT: Teuber, Suzanne

TITLE OF INVENTION: Purified Linear Epitopes from Cashew Nuts, Nucleic Acids Encoding

FILE REFERENCE: 28396 and 30728

CURRENT FILING DATE: 2002-10-03

PRIOR APPLICATION NUMBER: 60/326,793

PRIOR FILING DATE: 2001-10-03

PRIOR APPLICATION NUMBER: 60/371,774

NUMBER OF SEQ ID NOS: 15

SOFTWARE: PatentIn version 3.0

SEQ ID NO 3

LENGTH: 540

TYPE: PR

ORGANISM: Anacardium occidentale

US-10-264-303-3

Query Match 29.1%; Score 1027.5; DB 14; Length 540;  
Best Local Similarity 37.4%; Pred. No. 4.7e-71;

Matches 207; Conservative 118; Mismatches 173; Indels 55; Gaps 9;

QY 104 RRCCEIEEENYRQRPQOQYECQCRQHETEPRHMTCCQRCRRYKCKRQK 163

Db 35 KQCHQCKVQRYD-----EQCKECVKEC-----KTYKCKGRER 71

QY 164 RYEQOREDEKYEEMKEDNKRDPQOREYEDCRRCEQEPQO-----YQCCRRRE 218

Db 72 EHE-----EHEEWGTVGVDEPSTHBPAKHLISQCRQCEQEGQKQLCPRCQERYK 127

QY 219 QORHGRGDLINPORGSGRYEGE-EKQSDNPPYFERSLSTFRTEEGHISLVENFY 277

Db 128 ERGH-----NKREDEDEDEDEAEEDENPVFEDEDEFTTKVTEQCKVLLPKFT 180

QY 278 GRSULRALKNYRLVLEAPNPAFVLPHTLDADAILVTGGRGALKMTHRNRESYNLC 337

Db 181 QKSLHLHLEKRYLAIVANFOAFVPSHMDADSIFFVSGRGITTKILENKRRESINRQ 240

QY 338 GDVIRIPAGTFYLLINRDNNEHLIAKFLQITSTPGQYKEFFPAGGONPEBYLSTFSKEI 397

Db 241 GDIVISISGTFPIANDNENKLYVQFLRPVNLPGHEVFHGPGENPESFYRAFSEI 300

QY 398 LEAALNTQERLQVLCQOREGVIIISAOEIQRELTRDSESRWHIRGESSRGPNYL 457

Db 301 LEAALNTSKDTLEKLFQKQDGTIMKSKEDIRAMSRGEGPKIWPFT---EESTGSFKL 357

QY 458 FNRKPLVSNKYGQAYEVKPEDYROLQMDVSVFIANTTQSGMMGPFENTRSTKVVVASG 517

Db 358 FKQPSQSNKYGQLFEBERIDYPPLEKLDVVSANITKQGSVFPYNSRATKIAIVSG 417

QY 518 EADVEMACPHLSGHNHGRGGRKHEEEDVHYEOKALSKREAILVVPVGHPPVFSNGN 577

Db 418 EGCVEIACPHLS-----SKSHPSYKKLRIARIRKDYPIVAGHPFATVAGN 466

QY 578 ENLLFAFGINAONNHNFLAGREBNVLCQIEPQAMEIAPAPRKEVELEFNSODESIFP 637

Db 467 ENLEIVCEVNAENIRYTLAGK-KNIIKWEKAKELAFKMBEGBEVDKVGKODEEFPF 525

QY 638 PGPQHQQSSRS 650

Db 526 QGPWRKEKEGRA 538

## RESULT 12

US-10-264-303-4  
; Sequence 4, Application US/10264303  
; Publication No. US20030124060A1  
; GENERAL INFORMATION:

APPLICANT: Roux, Kenneth

APPLICANT: Teuber, Suzanne

TITLE OF INVENTION: Purified Linear Epitopes from Cashew Nuts, Nucleic Acids Encoding

FILE REFERENCE: 28396 and 30728

CURRENT FILING DATE: 2002-10-03

PRIOR APPLICATION NUMBER: 60/326,793

PRIOR FILING DATE: 2001-10-03

PRIOR APPLICATION NUMBER: 60/371,774

PRIOR FILING DATE: 2002-04-11

NUMBER OF SEQ ID NOS: 15

SOFTWARE: PatentIn version 3.0

SEQ ID NO 4

LENGTH: 536

TYPE: PR

ORGANISM: Anacardium occidentale

US-10-264-303-4

Query Match 29.1%; Score 1026.5; DB 14; Length 536;  
Best Local Similarity 37.3%; Pred. No. 5.6e-71;

Matches 206; Conservative 119; Mismatches 173; Indels 55; Gaps 9;

QY 104 RRCCEIEEENYRQRPQOQYECQCRQHETEPRHMTCCQRCRRYKCKRQK 163

Db 31 KQCHQCKVQRYD-----EQCKECVKEC-----KTYKCKGRER 67

QY 164 RYEQOREDEKYEEMKEDNKRDPQOREYEDCRRCEQEPQO-----YQCCRRRE 218

Db 68 EHE-----EHEEWGTVGVDEPSTHBPAKHLISQCRQCEQEGQKQLCPRCQERYK 123

QY 219 QORHGRGDLINPORGSGRYEGE-EKQSDNPPYFERSLSTFRTEEGHISLVENFY 277

Db 124 ERGH-----NKREDEDEDEDEAEEDENPVFEDEDEFTTKVTEQCKVLLPKFT 176

QY 278 GRSULRALKNYRLVLEAPNPAFVLPHTLDADAILVTGGRGALKMTHRNRESYNLC 337

Db 177 QKSLHLHLEKRYLAIVANFOAFVPSHMDADSIFFVSGRGITTKILENKRRESINRQ 236

QY 338 GDVIRIPAGTFYLLINRDNNEHLIAKFLQITSTPGQYKEFFPAGGONPEBYLSTFSKEI 397

Db 237 GDIVISISGTFPIANDNENKLYVQFLRPVNLPGHEVFHGPGENPESFYRAFSEI 296

QY 398 LEAALNTQERLQVLCQOREGVIIISAOEIQRELTRDSESRWHIRGESSRGPNYL 457

Db 297 LEAALNTSKDTLEKLFQKQDGTIMKSKEDIRAMSRGEGPKIWPFT---EESTGSFKL 353

QY 458 FNRKPLVSNKYGQAYEVKPEDYROLQMDVSVFIANTTQSGMMGPFENTRSTKVVVASG 517

Db 354 FKQPSQSNKYGQLFEBERIDYPPLEKLDVVSANITKQGSVFPYNSRATKIAIVSG 413

QY 518 EADVEMACPHLSGHNHGRGGRKHEEEDVHYEOKALSKREAILVVPVGHPPVFSNGN 577

Db 414 EGCVEIACPHLS-----SKSHPSYKKLRIARIRKDYPIVAGHPFATVAGN 462

QY 578 ENLLFAFGINAONNHNFLAGREBNVLCQIEPQAMEIAPAPRKEVELEFNSODESIFP 637

Db 463 ENLEIVCEVNAENIRYTLAGK-KNIIKWEKAKELAFKMBEGBEVDKVGKODEEFPF 521

QY 638 PGPQHQQSSRS 650

Db 522 QGPWRKEKEGRA 534

## RESULT 13

US-10-425-114-60246  
; Sequence 60246, Application US/10425114

```

: Publication No. US20040034888A1
: GENERAL INFORMATION:
: APPLICANT: Liu, Jingdong
: APPLICANT: Zhou, Yihua
: APPLICANT: Kovalic, David K.
: APPLICANT: Screen, Steven E
: APPLICANT: Tabaska, Jack E
: APPLICANT: Cao, Yongwei
: TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
: FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
: FILE REFERENCE: 38-21(5313)B
: CURRENT APPLICATION NUMBER: US/10/425,114
: CURRENT FILING DATE: 2003-04-28
: NUMBER OF SEQ ID NOS: 73128
: SEQ ID NO 60246
: LENGTH: 582
: TYPE: PRT
: ORGANISM: Zea mays
: FEATURE:
: OTHER INFORMATION: Clone ID: LIB3600-011-E12_F11.pep
: US-10-425-114-60246

```

	Query Match	25.5%	Score 901;	DB 15;	Length 582;
	Best Local Similarity	39.8%	Pred. No. 3,4e-61;		
	Matches	202;	Conservative	84;	Mismatches 181; Indels 40; Gaps 11
QY	182	EEDNKRDPQOREYEDCRRCRCEQQOEBRQYOOCORCRE-----QQRHGGRGDLINPORG	235		
Dd	35	EDDNHHNHGHKSGGCVCVRBCDRPHNQRPCLCEGRREEREREKRRSRHEAD-----RS	89		
QY	236	GSG-----RYEGSEENQSD-NPYYPREPRLSTFRFBEGHISVLNHFYGRSKLLALMKXR	290		
Dd	90	GEGSSEDEREEKEKEXKXDRPVFGRFSFRVVRSEQSGLVLRPFDEVSLRLGIIDRX	149		
QY	291	LVLLEANNNAFLPTHLADAILTLTGSRGALKMTHRDRESYNLECGDIVIRIPAGTFEY	350		
Dd	150	VAVLEANRSEVEPBHTDHCCTYAABEGVTTIENGERRYTIIKGCHVFAPAGAVTY	209		
QY	351	LINDNNMERLIAKFLQTIISTPGQKEFPFAGCONPEPLYSTFSKELLEALNTAOERLR	410		
Dd	210	LANTDGRRKKLVIAKLHTLSVPGEQFFFGPCGRNPESLFSKSIOQAAYKTSSDRLE	269		
QY	411	GVLGQ--QREGVIASAQOIRBELTRDSE---SRMHIRGGESSRGGYNLFNKRPILYS	465		
Dd	270	RLFGRHGQDKGILIVATEETQRELNRHASSEGCHGPWLPJPRGE-SRGPVSLLDORPSIA	328		
QY	466	NKYGAUYEVKREDYQLODMDVSFTIANITOGSMNGPFFNTSTKYVVVAASEADVENMC	525		
Dd	329	NOHQGLYADARSFDLAEHDVSVSPANITAGSMAPLFNTISSFKIATVPYPNKGVAIEYC	388		
QY	526	PHLSGRHG---GRGRGKRHEEEDVDH-----YEQVKARLSKREAIIVPVGHPIV	571		
Dd	389	PHROQGGSBERNERRKRRRSREEEEEESEDEGEAQQYHTIARIISPCTAFVPVAGHPV	448		
QY	572	FVSSGNENULLFAFGINAONHNENTLAGHERNVLOOLEQAMELAFAPARKVEBELFNQ	631		
Dd	449	AVASDSMTQICVCFVHADRNKEVLAAGAD-VLKLDKRVAKALSFSASKABEVDVLTGR	507		
QY	632	DESTIFFGPRQ---HQOOSSRSTKQOQ	655		
Dd	508	RKGFLLPGPKESGGHEERQEESSEE	534		

```
RESULT 34
US-10-425-114-39532
; Sequence 39532, Application US/10425114
; Publication No. US20040034868A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovacic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
```

```

: APPLICANT: Cao, Yongwei
: TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
: TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
: FILE REFERENCE: 38-21(53313)B
: CURRENT APPLICATION NUMBER: US/10/425,114
: CURRENT FILING DATE: 2003-04-28
: NUMBER OF SEQ ID NOS: 73128
: SEQ ID NO 39532
: LENGTH: 584
: TYPE: PRT
: ORGANISM: Zea mays
: FEATURE:
: OTHER INFORMATION: Clone ID: 700264357_FFLI pep
: US-10-425-114-39532
:
: Query Match 25.5%; Score 901; DB 15; Length 584;
: Best Local Similarity 39.8%; Pred. No. 3,5e-61;
: Matches 202; Conservative 84; Mismatches 181; Indels 40; Gaps 11;

```

	Query Match	25.5%	Score 901	DB 15	Length 584
	Best Local Similarity	39.8%	Pred. No.3.5e-61		
	Matches	202	Conservative	84	Mismatches 181; Indels 40; Gaps 11
QY	182	EDNKRDPQOREYEDCRRRCQOEERQOYOCORRCRE-----QORQCRGGDLINPQGR	235		
DB	37	EDDNHHNHGHSQGVACVRCEDRPMHQRPRLCEQREERERKQSRHREADV-----RS	91		
QY	236	GSQ-----RYEGGEERQSD-NPYTPPERLSTFRTEEGHISTLENFYGSKLLRALKNYR	290		
DB	92	GEGSEDEEREQEKEXKQRRPEVFERDRSFRVVRSEQSLRVLRPDEVSRLLRGIRDR	151		
QY	291	LVLLEANNAPVLPTPHLDADAILLVTGRCALMTHRDNRSESYNECGDVIRIPACTTGY	350		
DB	152	VAVLEANNRSTVVRBSTDHNCIYVAEBEGVTTIENGRRRYTIIKQGHVPAVAPAVTY	211		
QY	351	LINRDNNRHLIAKFLQTTSTPGQYKEFFPAGCONDEPYLSTFSKILEALALNTQAEIR	410		
DB	212	LANTDGRKKLYIAKILHTISVPGEFQFFPGGRPNDESLSFQSKSIQRAAKTSSDRLE	271		
QY	411	GVLGQ--QREGVITASASQOIRRELTRDSE---SRMHIRGEGESRGGYNIENKRPVLS	465		
DB	272	RLFGHGQDKGILVATBEEQTRFLRRHASEGGHGHMPLRPGR--SRGYSILDOQRPSTA	330		
QY	466	NKYGOAYEVKPEDEYQLODMDVSYEILAIITQSMNGPFENTRSTKVVVAAGADVMAC	525		
DB	331	NQHGQLYADARSFPHLDLHDVSVSFANITAGSMAPLENTSSFKIAYVPNGVAYEIVC	390		
QY	526	PHLSGRHG---GRRGGRHREEDVH-----YEQVTAISKREAIIVPVGHPPV	571		
DB	391	PHRGQGESERERDRKRRSEEESESESEEGEAGQYHTIARILSPGTAFVVPAGHPV	450		
QY	572	FVSGSNEMLLFAFGINQNNHENTLAGRERVLTQIIEQAMELPAARKVEEELFNSQ	631		
DB	451	AVASDSNQIYVCFVHDADREKVLAGAD-VTLQKLDVVALASPAASAEEDVLAGSR	509		
QY	632	DESIFFPGPRQ---HQOOSRSTKQOQ	655		
DB	510	REKGFLLPQKPEGGHEERERQEEERRE	536		

RESULT 15  
 US-09-331-631A-22  
 Sequence 22, Application US/09331631A  
 Patent No. US20020168392A1  
 GENERAL INFORMATION:  
 APPLICANT: Manners, John M.  
 APPLICANT: Marcus, John Paul  
 APPLICANT: Goulter, Kenneth C.  
 APPLICANT: Green, Jodie L.  
 TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
 FILE REFERENCE: CULIN23.001AFC  
 CURRENT APPLICATION NUMBER: US/09/331.631A  
 CURRENT FILING DATE: 1999-06-21  
 PRIOR APPLICATION NUMBER: PCT/AU97/00874  
 PRIOR FILING DATE: 1997-12-22  
 PRIOR APPLICATION NUMBER: AU PO 4275  
 PRIOR FILING DATE: 1996-12-20



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OY      ICEEEENR---QBDPOOYOCCCKRCORATREPHNMIOCORCGRYEKEKMKOOKKY 124
        :|::||::||::||::||::||::||::||::||::||::||::||::||::||:
Db      LCGSVAAGROYREBDRPROYOQCQRCESEATEEBEBOQGCRGCR-----EX 70
OY      EEOQREDEKTEBKKEGDNKDPRORYEDCRHCKEOE--PLYOOCORBCOEODRGH 182
        :|::||::||::||::||::||::||::||::||::||::||::||::||:
Db      KEQQOOQEEL-----ORQYOOQCRQEOOQOOCORCOOKWEYKEO 116
        :|::||::||::||::||::||::||::||::||::||::||::||::||:
OY      GRGGDLNMPORGSGRYEGEKEGSDNPYYFDE-FSLSTRPTEBGHISLVENFYGRSKU 241
Db      ER-GEHENYHNHKKRSEEBEQCHNNPFPPFKRSFCQFRFDEBEONFILOFAENSPP 175
        :|::||::||::||::||::||::||::||::||::||::||::||::||:
OY      LRALKNYLVLLEAENPAFVLPTHLDADAILLYVGRLAKMIHRNRESYNLECDDVR 301
        :|::||::||::||::||::||::||::||::||::||::||::||::||:
Db      LKGINDYLAMFEANPNFTFLPHDCDAEILYVTNGKITLTIVTHENKSSYVQRGVTS 235
        :|::||::||::||::||::||::||::||::||::||::||::||::||:
OY      IPAGTTLFLNRDNNEERLHIAKFLTOTISTPGQYKEFFPPGSGONPREYLSFPSELIEALL 361
        :|::||::||::||::||::||::||::||::||::||::||::||::||:
Db      VPASITVVVSQDNOEKLLIAYLALPVNSPGKIELFPFAGNNKPBSYGAFASTVELETVF 295
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QY 362 NTOTERLGVLCQOR-----EGVIRASQEIREFLTDSESRMHIRGGESSRGP 413
DB 296 NTOEKLEELIEERQKROOQOQGMERKAKPEQIRASIQATSPR-----HGGE--RLA 349
QY 414 YNLFNKRPLYSNKYGAAYEVPEYRQLODMDVSVFIANTIGSQMMGFPTNRSTKVVV 473
DB 350 INILSQSPVSNQNGRFEACPEDPQOFQNDVAVSAFKLNOGAI FVPHYNSKATFVVFV 409
QY 474 ASGEADVEMACPHLSRQSGRGGK--RHEEEEV-----HYEQVRLSKREAVLVLA 525
DB 410 TDGYVIAQMAQCPHLSRQSGRQDRREOESESEETFGFQOVKAPLSGDFVAPA 469
QY 526 GHPVVFVSSGNENLLFAFGINAQNNHNFFLAGERNVLCQIEPQAMELAFASRKEVEE 585
DB 470 GHAVTFPASKDQPLNVAFAFLAQNNOIRFLAGK--KNLVKQMDSEAKELSGVPSKLVN 528
QY 586 LFNQDESIFFPGRQHOQSPSTKQOQPLVSIIDF 622
DB 529 IFNNPDESYFMSFSQQROR---RDERRGNPASILD 562

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RESULT 2
US-07-955-905A-22
/ Sequence 22, Application US/07955905A
/ Patent No. 5770433
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
/ TITLE OF INVENTION: PRECURSOR
/ NUMBER OF SEQUENCES: 28
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/955,905A
/ FILING DATE: 21-JAN-1993
/ CLASSIFICATION: 435
/ INFORMATION FOR SEQ ID NO: 22:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 566 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ ORIGINAL SOURCE:
/ ORGANISM: Theobroma cacao
/ FEATURE:
/ NAME/KEY: Protein
/ LOCATION: 1..566
/ OTHER INFORMATION: /note= "67 kd Precursor Protein"
US-07-955-905A-22

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Query Match 33.6%; Score 1116; DB 1; Length 566;
Best Local Similarity 40.6%; Pred. No. 4.8e-93;
Matches 234; Conservative 107; Mismatches 178; Indels 58; Gaps 13;

QY 68 ICEEEENYR---QNDPQOQYHCQKRCQRRRETPRHMQICQRCERRYEKERKQOKRY 124
DB 22 LQSGVSAQGRQYEDPRQYEQCQRCEBATEBERQEQCEQRCE-----EY 70
QY 125 EEOQREDEKYEERKKEGDKNRDPQREYECRNHCQOE--PRLQYOCQRCQEOQORH 182
DB 71 KEQORQOEEL-----QROYOQOQRCQEOQOQRCQRCQRCQRCQRCQRCQRCQRCQ 116
QY 183 GRGDLNMPQSGSGRYHEGEEKQSDNPYYFDE-RSLSTFRTEEGHISLVNFYGRSL 241
DB 117 ER-SEHENYVNHKQREEEEGQQRNPPYFPKRBSQTRFRDEBGNFKILOFANSP 175
QY 242 LRLAKNYRLVLEAPPAFLPTLADATLLVYIGRGALKMTHRDNSYNLECGDYVR 301
DB 176 LKGINDRMLMFEANPTFTILPHCDKALYFVNGKGTITFVTHNKESYVNVQGTIVS 235

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QY 302 IPAGTFYILNRDNNERLHIAKFLQISTPGQYKEFPFAGQGNPEPYLSTESKELEAL 361
DB 236 VPAGSTVYVSDQNOCKLITVIALPVPNSPGYELFFPAGNNKPESYGAFSYELVTF 295
QY 362 NTOTERLGVLCQOR-----EGVIRASQEIREFLTDSESRMHIRGGESSRGP 413
DB 296 NTOEKLEELIEERQKROOQOQGMERKAKPEQIRASIQATSPR-----HGGE--RLA 349
QY 414 YNLFNKRPLYSNKYGAAYEVPEYRQLODMDVSVFIANTIGSQMMGFPTNRSTKVVV 473
DB 350 INILSQSPVSNQNGRFEACPEDPQOFQNDVAVSAFKLNOGAI FVPHYNSKATFVVFV 409
QY 474 ASGEADVEMACPHLSRQSGRGGK--RHEEEEV-----HYEQVRLSKREAVLVLA 525
DB 410 TDGYVIAQMAQCPHLSRQSGRQDRREOESESEETFGFQOVKAPLSGDFVAPA 469
QY 526 GHPVVFVSSGNENLLFAFGINAQNNHNFFLAGERNVLCQIEPQAMELAFASRKEVEE 585
DB 470 GHAVTFPASKDQPLNVAFAFLAQNNOIRFLAGK--KNLVKQMDSEAKELSGVPSKLVN 528
QY 586 LFNQDESIFFPGRQHOQSPSTKQOQPLVSIIDF 622
DB 529 IFNNPDESYFMSFSQQROR---RDERRGNPASILD 562

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RESULT 3
US-07-955-905A-23
/ Sequence 23, Application US/07955905A
/ Patent No. 5770433
/ GENERAL INFORMATION:
/ APPLICANT:
/ TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
/ TITLE OF INVENTION: PRECURSOR
/ NUMBER OF SEQUENCES: 28
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/07/955,905A
/ FILING DATE: 21-JAN-1993
/ CLASSIFICATION: 435
/ INFORMATION FOR SEQ ID NO: 23:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 587 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ ORIGINAL SOURCE:
/ ORGANISM: Gossypium hirsutum
/ FEATURE:
/ NAME/KEY: Protein
/ LOCATION: 1..587
/ OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
US-07-955-905A-23

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Query Match 31.9%; Score 1060; DB 1; Length 587;
Best Local Similarity 38.1%; Pred. No. 6.5e-88;
Matches 228; Conservative 116; Mismatches 181; Indels 74; Gaps 14;

QY 35 EDPQTCQOQRCQROESDPRQOYCORCK-EICEEEENYRQDRPQOYEQCQKQ 93
DB 35 DDEPKRYEDRRRCQMDTRQKQEQQCESSCKSYGKHQDQNHREDPQRREECQOEC- 93
QY 94 RRETEPRHMQICQORBERRYEKEKQRCQRYEQOQREDEKYEERKKEGDKNRDPQ 153
DB 94 -RQOERQRPQOQOQRC-----IKRFEQOQOQO-----SQGRQF 123
QY 154 EDCRRHCEQE--PRLQYOCQRCQEOQORHGRGDLNMPOR-----GSGRYEGBEK 205
DB 124 QECQOCHQOQOQRPFRKQOQVACGERYQF-----NPKRREREBEAEETTEGEOR 175

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OTHER INFORMATION:	peptide 10	311-320	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 11	325-334	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 12	344-353	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 13	393-402	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 14	409-418	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 15	461-470	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 16	498-507	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 17	525-534	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 18	539-548	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 19	551-560	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 20	559-568	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 21	578-587	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 22	597-606	are	Ara H 1	binding epitope,
OTHER INFORMATION:	Amino Acids				
OTHER INFORMATION:	peptide 23				

Query Match	26.0%	Score 864.5	DB 4	Length 626
Best Local Similarity	34.4%	Pred. No. 4.9e-70		
Matches 210	Conservative 113	Mismatches 208	Indels 79	Gaps 18
QY	52	ESDEPPOOY---CVRCKEICEBEEBENRQDPQOQYEOCOKRCORETEBR-----H	101	
DB	26	KSPFYQKKTENPCARCIQSCQGEPRDLKQ-----ACSRSTKLEYPDRCVYDPRH	78	
QY	102	MOIQORCERKYEKKKQOKRYEEOQREDEBEKTEEMKGD--NKRDPOOREVEDCRH	159	
DB	79	TGTTNQSPG-ETRRQRPEDY-----DDRRQPRREBGRMGPRFRERE---127		
QY	160	CEOEPRLOQOCRCOEQ---RQHGSGDILNPPRGSGRYEEBEEKOSDPPYFDE	215	
DB	128	-DMRGPRDM---RRSHQORRKIRPREGE---QEWGPRGHVARETSRRNPFPFS	179	
QY	216	RSLSRTRTEGHSYLENFYGRSKLRLALKNYLVLLEAPNPFVLPYTHLDALILVI	275	
DB	180	RRFTSRGNGGRIRVLQRFQRCRQFONLNHRITVQIEAPNPLVLPKADADANILVIQ	239	
QY	276	GGRALKMIHRDNESVYLECGDVRIRPAGTFFYLNRDNNEBRLIAKFLQITSPQYK	335	
DB	240	QGAQTVLVANGNNKKSFLNDEGHALRIPSGFISYILNRHDQNLRVAKISWVPTPGFE	299	
QY	336	EFFPAGGONPPRYLSTSKELLEALNTQTERLACVL-----GQOR-----376		
DB	300	DFPASPSSDQSYIQEBSRNTLEAFAAENEIRVLLEENAGEOBEGQRARSTSE	359	
QY	377	--EGVIRASQJIRELTRDSESRMHIRRGCESSRG---RYNLFNKRLPYNKYGOA	430	
DB	360	NNEGVIYKVSHEHBEILTKAKS-----VSKKSGEEBGDITNPLNLEGEBDLSNNQKL	414	
QY	431	YEKRPEDYR-OLQMDYVSFIANTIQSGMMGPFNTSTKYVVVUASGEADYEMACPHLSG	489	
DB	415	FEVPRDKKNPDLQDLDMVLTCVELKEGALMHPHNSKAMYIVVNNKGTGNIETLAVAKQD	474	
QY	490	RHGRRGGGRKRE-BEEFYHEQVR---ARLSKREAIVLVAGHPVUVFVSGGEMILLPFG	545	
DB	475	QQRBRREBDEDEEBEGSNREVARRYTARLKEGVFIMPAHRVAINASSETHLL--GFG	532	
QY	546	INAQNTENFLAGEBNVLQOIEQAMELLAPAAKRYEVELFNSQDSIFPPGRGRQOQ	605	
DB	533	INANNHRIFLAGKDNVITDQIEKQADLAFPGSGEGVEKLIKQKQESHFVSARPOSQO	592	

QY 606 SPSTKQCP 615  
 DB 593 SPSSPEKSP 602

RESULT 5  
 US-07-955-905A-24  
 / Sequence 24, Application US/07955905A  
 / Patent No. 5770433  
 / GENERAL INFORMATION:  
 / APPLICANT:  
 / TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
 / TITLE OF INVENTION: PRECURSOR  
 / NUMBER OF SEQUENCES: 28  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: Floppy disk  
 / OPERATING SYSTEM: IBM PC compatible  
 / SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/07/955,905A  
 / FILING DATE: 21-JAN-1993  
 / CLASSIFICATION: 435  
 / INFORMATION FOR SEQ ID NO: 24:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 605 amino acids  
 / TYPE: amino acid  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: protein  
 / ORIGINAL SOURCE:  
 / ORGANISM: Glycine max  
 / FEATURE:  
 / NAME/KEY: Protein  
 / LOCATION: 1..605  
 / OTHER INFORMATION: /note= "Vicilin from G. max"  
 US-07-955-905A-24

Query Match 25.8%; Score 857.5; DB 1; Length 605;  
 Best Local Similarity 32.1%; Pred. No. 2e-69;  
 Matches 203; Conservative 133; Mismatches 197; Indels 99; Gaps 18;

QY 31 YDNOEDPTECCQCCORRCRQESDPRQOYCQRC-----KEIGREB-----EYKR 77  
 DB 27 YWEKENPKH--NKCLQSC--NSERDSYRNQACHAKCMLKVEKSCBEGEIPPRPRPQHP 83  
 QY 78 QRPDQOYEGCCQRCQRC-----RETERPHMOTCCQRCRRY--EKCKKQCKRYEEQORE 130  
 DB 84 ERFPQPGKEEDEDQPRPIPRPRPQOBEENHEQBEQWPRKEKRGKGESEDED 143  
 QY 131 DEEKYEEMKEGDNKRDPQOREYEDCRHCEQOEPRLQYCCORRCQOQROHGRGGLMN 190  
 DB 144 EDEEODER--QFPFRPRPHQK-----ERNEBEDD-----EEQOREB----- 179  
 QY 191 PQRGSGRYEEBGEKQ-----SDNPYFDEKSLSTRFTEBGHISVLNPFGRSKTLRAL 245  
 DB 180 -----EESDSLSLRHKNKNPFLLPFSNRFETLPKQYGRIRVLQRFQGRSPQGNL 230  
 QY 246 KNYRLVLEAPNPAFVLPTHLDADAFLVYIGRGALKMIHRDNRESYVLEGGDVIIRIPAG 305  
 DB 231 RYRILFEFSKPNLTLLPNHADADLYIYINGTALISLVNDDDSYRLQSGDALRVPSG 290  
 QY 306 TFEYLLINDNMRHLIAKFLQITISTPGQYKEFFPAGGQNPPEYVSTSKETLEALNTQT 365  
 DB 291 TTYVVNPDNNENMLITLAI PVNPKGRFESFFLSSTEAQOSYVQGRSRLNLEASVDTKF 350  
 QY 366 ERLKGLV-----GOOR--EGYIIASQEOIRBELTRDSESRNMIIRGGESSRGPY 414  
 DB 351 EINKVLFBSREGQGGQGRLOESVYIVISKEQIRALSKAKSSSRRTI-----SSEDKPF 406  
 QY 415 NLFNKRPYISKYGAQAVKPEYRQLOQMDVSVFIANITQSGMGGFFFTSRKTVVVA 474  
 DB 407 NLRSDPIYSKMLKQFEITPEKNPQLRDLDIFLSIDVMEGALLPHFNSKALIVLIVIN 466

QY 475 SGEADVEMACPHLSGHRGGCGKREBEVEVHYEQ-----VPRARSKREAVYVLGHP 528  
 DB 467 EGDANIETV-----GLKEQOQEQQEEQPLVYKRYALSEQDIFVIPAGPY 513  
 QY 529 VVFVSSGGENILLPAGINAQNNHENVLAGERBNVLOQIEPQAMELLAPASRKEVEBLFN 588  
 DB 514 VVV--NATNINLNFPAIGINAENQNFILASQDNVISOIPQOVOLAFPGSAQAVETKLLK 571  
 QY 589 SQDESIFFPFGPRHOQGSPRSTKQOQPLVSTL 620  
 DB 572 NQRESYFVDAQPKKKEGNKGRK--GPLSTIL 601

RESULT 6  
 US-07-955-905A-25  
 / Sequence 25, Application US/07955905A  
 / Patent No. 5770433  
 / GENERAL INFORMATION:  
 / APPLICANT:  
 / TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
 / TITLE OF INVENTION: PRECURSOR  
 / NUMBER OF SEQUENCES: 28  
 / COMPUTER READABLE FORM:  
 / MEDIUM TYPE: Floppy disk  
 / OPERATING SYSTEM: IBM PC compatible  
 / SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
 / CURRENT APPLICATION DATA:  
 / APPLICATION NUMBER: US/07/955,905A  
 / FILING DATE: 21-JAN-1993  
 / CLASSIFICATION: 435  
 / INFORMATION FOR SEQ ID NO: 25:  
 / SEQUENCE CHARACTERISTICS:  
 / LENGTH: 571 amino acids  
 / TYPE: amino acid  
 / TOPOLOGY: linear  
 / MOLECULE TYPE: protein  
 / ORIGINAL SOURCE:  
 / ORGANISM: Pisum sativum  
 / FEATURE:  
 / NAME/KEY: Protein  
 / LOCATION: 1..571  
 / OTHER INFORMATION: /note= "Convicilin from P. sativum"  
 US-07-955-905A-25

Query Match 25.0%; Score 833; DB 1; Length 571;  
 Best Local Similarity 33.1%; Pred. No. 3.2e-67;  
 Matches 206; Conservative 110; Mismatches 195; Indels 111; Gaps 16;

QY 31 YDNOEDPTECCQCCORRCRQESDPRQOYCQRCCKEICEEVEYNRPDQOYEQCQK 90  
 DB 27 YANYDEGSSTRPQGRREGROEGKEKRGHEMPRYEKEBHEB-----EKQCY----- 75  
 QY 91 KQRETERPHMOTCCQRCRRYKREKRRKQKQ-----RYEEQOREDEKYEEMKEGDNKR 146  
 DB 76 -----RYQREKKEQKEVQGRERNERREDEDEQVEENKRGSGRRS 114  
 QY 147 DPQOREYEDCRHCEQOEPRLQYCCORRCQOQROHGRGGLMN PQRGSGRYEEBGEKQ 206  
 DB 115 DEER-----ARLRREER--TYRDRRH-----QREGEEBESSSSQ 150  
 QY 207 SDNPYFDEKSLSTRFTEBGHISVLNPFGRSKTLRALKNYRLVLEAPNPAFVLPTHL 266  
 DB 151 HRNPFLFKSNKFLTLFENENGHIRRLQRFKRGDLPENLQNYLVYRAKAVHTITFLPHOH 210  
 QY 267 DADAILVYIGRGALKMIHRDNRESYVLEGGDVIIRIPAGTFFYLINRDNMRHLIAKFLQ 326  
 DB 211 DADAILVNLKKAFLTVLSPNDRNSYVLEGGDTIKIPAGTTSYLVNQDDEDLRVVDVYL 270  
 QY 327 TISTPGQYKEFFPAGGQNPPEYVSTSKETLEALNTQTERLRGVV----- 372  
 DB 271 PVNPKGRFEAF--GLSENKQYVLRGFSKNILBSLNTKTETIKVLBEQEKKPPQQLRDR 328

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Query Match      23.9%; Score 794; DB 4; Length 524;
Best Local Similarity 33.4%; Pred. No. 1e-63;
Matches 191; Conservative 103; Mismatches 176; Indels 102; Gaps 18.

QY RCKEICEEEEFYNNRQDPO--QYQYQCCRCRCRRTERPHMQICQRCERRYEKERKQ 121
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db KCKETEVEEE-----DPELVTCNKCQCCQCCQCYTGDKR--VCIQSCD-RYHKKQERE 76
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY KRVEEQOREDEDEKYEERMKEGDNKRDPQOREYEDCRHCEQEPRLQYQCRRCQEQOR 181
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db KQIQETRE-----KKEESRREE-----EEQEQ 101
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY HGRGDLNMPQGGSGRYEEBEEKQSDNPYYFDE-RSLSTRETEGHI SVLENFYGRSK 240
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db H-----EEDENPYIFEEQDKDFETRVETEGRIPLVKPFTEKSK 140
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY LRLALKNRVLVLLENPAFVLPFTLBDADLLIVGGGALMKTHRDNRKESINLECGVY 300
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db LLOGIENRFLALEPRAHFPVSPRHFDESVVFENKGAVALGLVSESETEKLTPEPGMI 200
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY RIPAGTTFYLLNRDNNRRLHTA--KFLQTIISPGQYKEFFPAGGNPEPYLSTPEKILE 358
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db HIPACTPLYINRDNDCFLFLMHTIPVSVSTPGFEEFPAAGGDPEVSVAEFWNVLQ 260
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY AALNTOERLNGVLQCRREGVILRASQECIRBELTDDSESRMHIRRGESGSRGCVNLFN 418
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db AALQTPKCKLENVFPQCGNEGSIFRISRQVRLA--PTKSSWMP--GGE-SKPFNIFS 316
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY KRLPYSNKYGAQVYKPEDYRQ--LQMDVSVFLANITQGSNMGEFNTTRSTKVVVASG 476
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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[illegible]

Qy 601 QHQQSPRS 609  
Db 479 PSEGRRA 487

## RESULT 9

US-09-424-283-2  
; Sequence 2, Application US/09424283  
; Patent No. 6437219  
; GENERAL INFORMATION:  
; APPLICANT: Grimes, et al.  
; TITLE OF INVENTION: Sucrose binding proteins  
; FILE REFERENCE: 4630-50206  
; CURRENT APPLICATION NUMBER: US/09/424,283  
; CURRENT FILING DATE: 1999-11-19  
; PRIOR APPLICATION NUMBER: PCT/US98/10465  
; PRIOR FILING DATE: 1998-05-21  
; PRIOR APPLICATION NUMBER: US 60/047,568  
; PRIOR FILING DATE: 1997-05-22  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 444  
; TYPE: PRT  
; ORGANISM: Glycine max  
US-09-424-283-2

## Query Match 22.3%, Score 743, DB 4, Length 444;

Best Local Similarity 35.1%, Pred. No. 3,6e-59;  
Matches 173, Conservative 87, Mismatches 151, Indels 82, Gaps 15;

Qy 64 RCKICEEEENRRDPO--QYEQCKRCQRETEPRHMQICQGRERYEKKRQ 121  
Db 27 KCKETEVEEB-----DEPLVTKKHQCCQOQYTGDKR--VCLQSCD-RYHRMKQRE 76  
Qy 122 KRYEQREDEKEKYERMKEGDNKRDPOQREYEDCRHCEQOEPRLOYQCRRCOQRO 181  
Db 77 KQIQSETE-----KKEESRE-----EQOEQ 101  
Qy 182 HGRGDLNPPORGSGRYEEGEEKOSDNPYPDE-RSLSTRPTEEGHIVLENFYGSK 240  
Db 102 H-----EODENPYIFEEDKDEPTEVETEGGRIRVLKKEFKESK 140  
Qy 241 LIRALKYRVLLENPNAPFVLPHTLDADAILLVIGRGALKMIRDNRESYNLECGVY 300  
Db 141 LQGLEENRLALEARHTFVSPRHPDSVVFENIKGRAVLGLVSESETEKLTLEPGDV 200  
Qy 301 RIPAGTFYLIRDNNEERLHA--KFLQTIPTPGQYKEFPFAGGONPEPYLSTFSKEILE 358  
Db 201 HIPAGTPYIIVRDENDKFLFLMLHI PVSVSTPGKFEFFAPGGRDPESVLSAFWMVLO 260  
Qy 359 AALNTQTERLGVLCQOREGVIIIRASQOIRLITRDSERSRMHIRGGESSRGPNYLFN 418  
Db 261 AALQTPKGLLENVFPQONGSIFRISREQVRLA--PTKSSWMPF--GGE-SKPOFNIFS 316  
Qy 419 KRELXNKYGQAYEYKPEYRQ--LQDMVSYFINITQSGMMGPFENRSTRKVVVVASG 476  
Db 317 KRPTISNGRGLTEGPDDEKSWLQRLMLLTFTNITRSTTHSHAKIKLIVIDG 376  
Qy 477 EADVEMACPRLSGRGRGGRHEEEVHYEQVARLSKREAVLVLAGHPVVPVSSGN 536  
Db 377 RCHLQISCHMS-----SRSSHKHDSRP-SYHRISSDLKPMGVFVPPGHPFVITASK 431  
Qy 537 ENLLIPAGGINAQ 549  
Db 432 ENLLMICEFVNAR 444

RESULT 10  
US-09-323-195A-18  
; Sequence 18, Application US/09323195A  
; Patent No. 6462257  
; GENERAL INFORMATION:

APPLICANT: Pullman, Gerald  
APPLICANT: Cairney, John  
APPLICANT: Pereira, Ranjan  
TITLE OF INVENTION: VICTIM-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND  
FILE REFERENCE: 1PST0009  
CURRENT APPLICATION NUMBER: US/09/323,195A  
CURRENT FILING DATE: 1999-06-01  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 18  
LENGTH: 448  
TYPE: PRT  
ORGANISM: Picea glauca  
US-09-323-195A-18

## Query Match 22.2%, Score 740, DB 4, Length 448;

Best Local Similarity 37.1%, Pred. No. 6,6e-59;  
Matches 159, Conservative 89, Mismatches 157, Indels 24, Gaps 9;

Qy 191 PORGSGRYEEGEEKOSDNPYPDESLSTRPTEEGHIVLENFYGRSKLIRALKYRL 250  
Db 34 PEYIGRGGR-EEEREENPYFHSDFRTRASSEAGEIRALPNFGEVSELLEGIRKRV 92  
Qy 251 VLEENPNAPFVLPHTLDADAILLVIGRGALKMIRDNRESYNLECGDVIRIPAGTFYL 310  
Db 93 TCIEKKNYTWLPHYIDATWILVYTRRGYIAYHQBELVKRLEBDVFGVSGHTFYL 152  
Qy 311 INRDNNEERLHAKLQTIPT--PGQYKEFPFAGGONPEPYLSTFSKEILEALNTQTERLR 369  
Db 153 VNDDHNTLRISLIVREVSTVRGEYQPFYVAGGNPOTVVSFDDVLEAFAFNNOOLE 212  
Qy 370 GVLDGQOREGVIIIRASQOIRLITRDSERSRMHIRG--GESR-----GPYNLEFNKPL 422  
Db 213 RIFGKHSGLVITIHNEEDIRNMF-----KRGFSAGSMAPRHPKPNLRNQPD 262  
Qy 423 YSNKYGAYEYKPEYRQLODMVSYFINITQSGMMGPFENRSTRKVVVVASGEADYEM 482  
Db 263 FENENGRPTIGPNKYFPLDLVDSVGLADLNPSTAPLSNKSSTSIGIVTNGEGRLEM 322  
Qy 483 ACPHLSGRHGRGGGKREHEEEVHYEQVARLSKREAVLVLAGHPVVPVSSGNELLF 542  
Db 323 ACPHL-GQHG--WSSPBERGDQDITQYRWAKLRGTGYIYPAPHPITELASTSRLOIL 379  
Qy 543 AFGINQNNHNFILAGERBNVLOQIEPQAMELAPASR--KEVEELPQSDSIFPPGPRQ 601  
Db 380 WPDILNTRGNEROFLAGK--NNVLNLTREIRIROLSTFNVPRGEIEEVLQAKQOVLIRGFOR 438  
Qy 602 HQQSPRST 610  
Db 439 RSRDEARS 447

RESULT 11  
US-07-955-905A-26

Sequence 26, Application US/07955905A  
Patent No. 5770433  
GENERAL INFORMATION:

APPLICANT:  
TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
NUMBER OF SEQUENCES: 28  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
FILING DATE: 21-JAN-1993  
CLASSIFICATION: 435  
INFORMATION FOR SEQ ID NO: 26:  
SEQUENCE CHARACTERISTICS:

QY 362 NTQTERLRGVL

QY 362 NTQTERLRGVL

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Db      251 QTPKKLRLFRNQDNEGGISIFKISRERVALA-PTKSSWPF--GGE-SKAQNIFFSKRP
Qy      422 LYSNKYGAAYEVKPEDYRQ-LQDMVSVFIANTOGSMGPFENTRSTKVYVVASGADV
Db      307 TFSNGYGLTEGVDPDEKSMQLRLMLFTNITQRSMTIHVNSHTKIALVWDGNGHL
Qy      481 EMACPHLSGRHGGCGRRHEEEVHYEQVARLSKREALVTLAHP
Db      367 QISCPHMSRSDSK-----HDKSSPSYHISADLKQGVVFPVPPGHP

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# RESULT 14

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US-07-955-905A-27
; Sequence 27, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patent Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Phaseolus vulgaris
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..421
; OTHER INFORMATION: /note="Vaccilin from P. vulgaris"
US-07-955-905A-27

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Query Match 16.6%; Score 552; DB 1; Length 421;  
Best Local Similarity 33.6%; Pred. No. 8.8e-42;

Matches 143; Conservative 71; Mismatches 156; Indels 56; Gaps 12;

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Qy      203 EEKOSDNPYYFD-ERSLSTRFTEEGHISVLENFYGRSKLRLAKNRYLVLLANPAFV
Db      30 EEESQDNPFYFNSDMSWNTLFRKQYGHIRVLORFQOQSRLOQNEEDYLVFERSKPEITL
Qy      262 LPTHLDADAILLVIGRGALKMIHRDNRESY-----NLECGDVIRIPAGTTFYILNRDN
Db      90 LFOQADAEILLVRRSGSAILVVKPDDREYFFLTSDNPISDQKIPAGITFLVLPDP
Qy      316 NERLHIAKLIQITISPGYKKEFFPAGCGNPEYISTESKILBALNTQTRLRGVIGQ-
Db      150 KEDALITQLAMPVNP-QIHFFLSTEAQOSYLOEFKSKILEASFNKFEIRNVIFEE
Qy      375 --QREGVITIRASQEQIRELTRDSESRMRHTRRGESGRGPYNLFNKRPVLSNKGAYE
Db      209 EGQOEGVIVNIDSEQIKELSKHAKSSR-----KSLSKQDNTGNEFGULTE
Qy      433 VKPEYRLOQMDVSVFIANT--TQSGMAGPFENTRSTKVYVVASGADVEMACPHLSGR
Db      256 -----RTNLSLVLTSSISEMEGALFVPHYYSKAIIVLVNVEGAHYELVGPK----
Qy      491 HGRGGGGRHHEEVEHYEQVARLSKREALVTLAHPVVSNGENMLLPAGTAAQN
Db      304 -----GNK-----ETLEVESYRAELSKDQDVVIPAIVPAIKATSNVNT--GFGINANN
Qy      551 NHENFLAGREKNVLOQT-----EPQAMELAFPAASRKEVEBELFNSQDSIFFPGPRQHQQ

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Db      352 NNRNLLAGTNDVIVISIGALDQKDVLCITRSGSDGVKMLNKQSGS-YFVDAHHQOE
Qy      606 SRSRXK 611
Db      411 QQKGRK 416

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# RESULT 15

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US-09-106-872A-17
; Sequence 17, Application US/09106872A
; Patent No. 6466311
; GENERAL INFORMATION:
; APPLICANT: Burks Jr., A. Wesley
; APPLICANT: Stanley, J. Steven
; APPLICANT: Cockrell, Gael
; APPLICANT: King, Nina E.
; APPLICANT: Sampson, Hugh A.
; APPLICANT: Helm, Ricki M.
; APPLICANT: Bannion, Gary A.
; TITLE OF INVENTION: Peanut Allergens and Methods
; FILE REFERENCE: HS 103 CIP
; CURRENT APPLICATION NUMBER: US/09/106,872A
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: PCT/US96/15222
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 17
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Arachis hypogaea
US-09-106-872A-17

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Query Match 14.5%; Score 481.5; DB 4; Length 335;  
Best Local Similarity 36.8%; Pred. No. 1.7e-35;  
Matches 117; Conservative 55; Mismatches 107; Indels 39; Gaps 9;

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Qy      328 ISTPGYKKEPPYAGGQNPPEYISTFSKELBALNTQTRLRGVL-----GQQ
Db      3 VNTPGQFEDEFPASSSDOSSYLOGFSRNTLEAFNAFNEIRVLLLEENAGSGQBRGR
Qy      376 R-----EGYIRASQEQIRELTRDSESRMRHTRRGESGRG-----PYNLPRKRL
Db      63 RMTRESNNEGIVIVKSKHAYELTKAKS-----VSKGSEBEDITNPINLRGEPD
Qy      423 YSNKYGAAYEVKPEDYR-QLODMVSVFIANTOGSMGPFENTRSTKVYVVASGADV
Db      118 LSNMFGLEFEVKDKKNPOLQDLDMLTCVEIKEGALMLPHNSKAMVIVVNNKGTGNLE
Qy      482 MACPHLSGRHGGCGGCGKRRH-EEEVHYEQV---ARLSKREALVTLAHPVVSNGNE
Db      178 LVAVRKEQOQGRREEDDEDEESNREVRRTARLKEGVFIMPAAHPVAIVASSSL
Qy      538 NULLFAGINAQNHNENFLAGRENVTLQIEPQAMELAFPAASRKEVEBELFNSQDSIFF
Db      238 HLL--GFGINAENNRHIFLAGDKDQVVDQIEKQADLAFPGSGGEVETLIKQKESHFVS
Qy      598 GRGQHQQGPRSTKQOQ 615
Db      296 A--QOSOSPSPEKESP 311

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Search completed: February 15, 2005, 18:03:03  
Job time : 40.2338 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2005, 17:34:20 ; Search time 103.91 Seconds  
(without alignments)  
1965.343 Million cell updates/sec

Title: US-09-331-631A-5

Sequence: 1 QCMQLETSQGMRRVCVSCDK.....SPRSTKQQQLVSLIDFVGF 625

Scoring table: BLOSUM62DX  
Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376875

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10D\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3326	100.0	625	9	US-09-331-631A-5
2	3326	100.0	625	14	US-10-147-095-5
3	3227	97.0	666	9	US-09-331-631A-1
4	3227	97.0	666	14	US-10-147-095-1
5	3215	96.7	666	9	US-09-331-631A-3
6	3215	96.7	666	14	US-10-147-095-3
7	1092.5	32.8	590	9	US-09-331-631A-8
8	1092.5	32.8	590	14	US-10-147-095-8
9	1015	30.5	525	9	US-09-331-631A-7
10	1015	30.5	525	14	US-10-147-095-7
11	1015	30.5	540	14	US-10-264-303-3
12	1014	30.5	536	14	US-10-264-303-4
13	894	26.9	582	15	US-10-425-114-60246

14	894	26.9	584	15	US-10-425-114-39532	Sequence 39532, A
15	888	26.7	582	9	US-09-331-631A-22	Sequence 22, Appl
16	888	26.7	582	14	US-10-147-095-22	Sequence 22, Appl
17	868.5	26.1	605	15	US-10-100-303A-110	Sequence 110, App
18	864.5	26.0	637	9	US-09-331-631A-24	Sequence 24, Appl
19	864.5	26.0	637	14	US-10-147-095-24	Sequence 24, Appl
20	863.5	26.0	626	10	US-09-847-208-28	Sequence 28, Appl
21	863.5	26.0	626	14	US-10-228-806-2	Sequence 2, Appl
22	863.5	26.0	626	15	US-10-100-303A-7	Sequence 7, Appl
23	863.5	26.0	626	15	US-10-245-871-10	Sequence 10, Appl
24	863.5	26.0	626	15	US-10-253-286-10	Sequence 10, Appl
25	861	25.9	614	9	US-09-331-631A-21	Sequence 21, Appl
26	861	25.9	614	10	US-09-847-208-27	Sequence 27, Appl
27	861	25.9	614	14	US-10-147-095-21	Sequence 21, Appl
28	861	25.9	614	15	US-10-100-303A-8	Sequence 8, Appl
29	859.5	25.8	605	9	US-09-331-631A-25	Sequence 25, Appl
30	859.5	25.8	605	14	US-10-147-095-25	Sequence 25, Appl
31	858.5	25.8	605	15	US-10-424-599-153195	Sequence 153195, A
32	854	25.7	623	15	US-10-424-599-153206	Sequence 153206, A
33	839	25.2	634	9	US-09-731-221-78	Sequence 78, Appl
34	821	24.7	584	15	US-10-424-599-260105	Sequence 260105, A
35	794	23.9	518	15	US-10-424-599-153615	Sequence 153615, A
36	794	23.9	524	14	US-10-155-805-1	Sequence 1, Appl
37	782	23.5	447	15	US-10-425-114-58676	Sequence 58676, A
38	779.5	23.4	489	15	US-10-424-599-153614	Sequence 153614, A
39	776.5	23.3	489	14	US-10-155-805-3	Sequence 3, Appl
40	756.5	22.7	425	15	US-10-245-227B-12	Sequence 12, Appl
41	752	22.6	417	15	US-10-245-227B-14	Sequence 14, Appl
42	749	22.3	439	15	US-10-245-227B-1	Sequence 1, Appl
43	743	22.3	576	14	US-10-155-805-2	Sequence 2, Appl
44	737	22.2	576	16	US-10-437-963-146150	Sequence 146150, A
45	733	22.0	390	15	US-10-245-227B-2	Sequence 2, Appl

## ALIGNMENTS

RESULT 1  
US-09-331-631A-5  
Sequence 5, Application US/09331631A  
Patent No. US20020168392A1  
GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
CURRENT FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 5  
LENGTH: 625  
TYPE: PRT  
ORGANISM: Macadamia integrifolia  
FEATURE:  
NAME/KEY: PEPTIDE  
LOCATION: (1)...(625)  
OTHER INFORMATION: Partial mature peptide  
US-09-331-631A-5

APPL

Query Match: 100.0%; Score 3326; DB 9; Length 625;  
Best Local Similarity 100.0%; Pred. No. 1.1e-255; Indels 0; Gaps 0;  
Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 QCMQLETSQGMRRVCVSCDKFEEDIDWSKYDNDQEPTECCQCCRRGRQESDPRQOY 60  
Db 1 QCMQLETSQGMRRVCVSCDKFEEDIDWSKYDNDQEPTECCQCCRRGRQESDPRQOY 60

Query Match 100.0%; Score 3326; DB 14; Length 625;  
 Best Local Similarity 100.0%; Pred. No. 1,1e-255;  
 Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 CORCKEICEEEYVNRQDPQOQYECQRCRRTEPRHMOICQRCERYEKERKQ 120
DB 61 CORCKEICEEEYVNRQDPQOQYECQRCRRTEPRHMOICQRCERYEKERKQ 120
QY 121 QKRYEQORDEDEKYEEMKKGDNKRDPOQREYEDCRHHCQOEPRLOYQCORRCEQOR 180
DB 121 QKRYEQORDEDEKYEEMKKGDNKRDPOQREYEDCRHHCQOEPRLOYQCORRCEQOR 180
QY 181 QHGRGDLMPORGSGRYEEGEEKSDNPYFEDRSISTRTTEGHISVLENFYGRSK 240
DB 181 QHGRGDLMPORGSGRYEEGEEKSDNPYFEDRSISTRTTEGHISVLENFYGRSK 240
QY 241 LRLAKNYRLVLEPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
DB 241 LRLAKNYRLVLEPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
QY 301 RLPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFFPAGGONPEPYLSTESKEILEAA 360
DB 301 RLPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFFPAGGONPEPYLSTESKEILEAA 360
QY 361 LNTOTERLRGVLGQOREGVITIRASQEQIRELTRDDESRRWHIRGESSRGPYNLFNKR 420
DB 361 LNTOTERLRGVLGQOREGVITIRASQEQIRELTRDDESRRWHIRGESSRGPYNLFNKR 420
QY 421 PLYSNKYGQAYEVKPEDEYRQLODMDSVFIANTIQSGMMGPFNTSTKVYVVASGEADV 480
DB 421 PLYSNKYGQAYEVKPEDEYRQLODMDSVFIANTIQSGMMGPFNTSTKVYVVASGEADV 480
QY 481 EMACPHLSGHRGGGGRHHEEVEYHVEQVRLARLSKREAILVLAGHPVVFVSGNENLL 540
DB 481 EMACPHLSGHRGGGGRHHEEVEYHVEQVRLARLSKREAILVLAGHPVVFVSGNENLL 540
QY 541 LPAFGINAQNNHNFFLAGERNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
DB 541 LPAFGINAQNNHNFFLAGERNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
QY 601 QHQOQSPRSTKQOQPLVSTLDFVGF 625
DB 601 QHQOQSPRSTKQOQPLVSTLDFVGF 625

RESULT 2
US-10-147-095-5
; Sequence 5, Application US/10147095
; Publication No. US2003017274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FaSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: PEPTIDE
; LOCATION: (1)...(625)
; OTHER INFORMATION: Partial mature peptide
US-10-147-095-5

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APF-2

Query Match 100.0%; Score 3326; DB 14; Length 625;  
 Best Local Similarity 100.0%; Pred. No. 1,1e-255;  
 Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 QCMQLTSSQMRRCVSCCKREEDIDMSKYDNQEDPQTECQOCCORRCQOESPPROQY 60
DB 1 QCMQLTSSQMRRCVSCCKREEDIDMSKYDNQEDPQTECQOCCORRCQOESPPROQY 60
QY 61 CORCKEICEEEYVNRQDPQOQYECQRCRRTEPRHMOICQRCERYEKERKQ 120
DB 61 CORCKEICEEEYVNRQDPQOQYECQRCRRTEPRHMOICQRCERYEKERKQ 120
QY 121 QKRYEQORDEDEKYEEMKKGDNKRDPOQREYEDCRHHCQOEPRLOYQCORRCEQOR 180
DB 121 QKRYEQORDEDEKYEEMKKGDNKRDPOQREYEDCRHHCQOEPRLOYQCORRCEQOR 180
QY 181 QHGRGDLMPORGSGRYEEGEEKSDNPYFEDRSISTRTTEGHISVLENFYGRSK 240
DB 181 QHGRGDLMPORGSGRYEEGEEKSDNPYFEDRSISTRTTEGHISVLENFYGRSK 240
QY 241 LRLAKNYRLVLEPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
DB 241 LRLAKNYRLVLEPNPAFVLPTHLDADAILLVIGRGALKMIHRDNRESYNLECGDVI 300
QY 301 RLPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFFPAGGONPEPYLSTESKEILEAA 360
DB 301 RLPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFFPAGGONPEPYLSTESKEILEAA 360
QY 361 LNTOTERLRGVLGQOREGVITIRASQEQIRELTRDDESRRWHIRGESSRGPYNLFNKR 420
DB 361 LNTOTERLRGVLGQOREGVITIRASQEQIRELTRDDESRRWHIRGESSRGPYNLFNKR 420
QY 421 PLYSNKYGQAYEVKPEDEYRQLODMDSVFIANTIQSGMMGPFNTSTKVYVVASGEADV 480
DB 421 PLYSNKYGQAYEVKPEDEYRQLODMDSVFIANTIQSGMMGPFNTSTKVYVVASGEADV 480
QY 481 EMACPHLSGHRGGGGRHHEEVEYHVEQVRLARLSKREAILVLAGHPVVFVSGNENLL 540
DB 481 EMACPHLSGHRGGGGRHHEEVEYHVEQVRLARLSKREAILVLAGHPVVFVSGNENLL 540
QY 541 LPAFGINAQNNHNFFLAGERNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
DB 541 LPAFGINAQNNHNFFLAGERNVLOQIEPQAMELAPASRKEVEELFNSODESIFPPGPR 600
QY 601 QHQOQSPRSTKQOQPLVSTLDFVGF 625
DB 601 QHQOQSPRSTKQOQPLVSTLDFVGF 625

RESULT 3
US-09-331-631A-1
; Sequence 1, Application US/09331631A
; Patent No. US2002016932A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULIN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FaSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
US-09-331-631A-1

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Query Match      97.0%: Score 3227; DB 9; Length 666;
Best Local Similarity 96.6%: Pred. No. 9.3e-248;
Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 1 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOCCORRCROQESDPQQOY 60
DB 42 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOCCORRCROQESDPQQOY 101
QY 61 CORCKEICEEEYNNORDPQQOYEQCKRCORRETPRHMOICQRCERYEKEKXQ 120
DB 102 CORCKEICEEEYNNORDPQQOYEQCKRCORRETPRHMOICQRCERYEKEKXQ 161
QY 121 QKRYEQOREDEEYERMEKEDNKRDPQOREYEDCRRRCQOEPRQHCQLRCREQOR 180
DB 162 QKRYEQOREDEEYERMEKEDNKRDPQOREYEDCRRRCQOEPRQHCQLRCREQOR 221
QY 181 QHGGGDLMPORGGSGRYEGBEGEKQSDNPYYFDEBSLSTRFTEEGHISYLENFGYRSK 240
DB 222 QHGGGDMNMPORGGSGRYEGBEGEKQSDNPYYFDEBSLSTRFTEEGHISYLENFGYRSK 281
QY 241 LLRALKNYRLVLEANPNAFVLPTHLDADAILVIGRGALKMIHRDRESYNLECGDVI 300
DB 282 LLRALKNYRLVLEANPNAFVLPTHLDADAILVIGRGALKMIHRDRESYNLECGDVI 341
QY 301 RIPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 360
DB 342 RIPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 401
QY 361 LNTOTERLRGVLGQOREGVIIIRASQEQIRELTRDSESRWHIRRGSSSGPYLFPKR 420
DB 402 LNTOTERLRGVLGQOREGVIIIRASQEQIRELTRDSESRWHIRRGSSSGPYLFPKR 461
QY 421 PLYSNKYQAYEVKEDYRQLQDMDSYFIANTIGSNMGPFNTRSTKVVVVASGEADV 480
DB 462 PLYSNKYQAYEVKEDYRQLQDMDSYFIANTIGSNMGPFNTRSTKVVVVASGEADV 521
QY 481 EMACPHLSGRHGGGGRGGRHEEEDVHYEQVRAISKEALVVLAGHVVVVSSENEILL 540
DB 522 EMACPHLSGRHGGGGRGGRHEEEDVHYEQVRAISKEALVVLAGHVVVVSSENEILL 581
QY 541 LPAFGINANNHNNFLAGRENNVLOQIEPQAMELAFASRKEVEELFYSODESIFFPBPR 600
DB 582 LPAFGINANNHNNFLAGRENNVLOQIEPQAMELAFAPRAKEVESFNSODSIFFPBPR 641
QY 601 QHQOOSPRSTKQOQPLVSIIDFVG 625
DB 642 QHQOOSPRSTKQOQPLVSIIDFVG 666

RESULT 4
US-10-147-095-1
; Sequence 1, Application US/10147095
; Publication No. US2003017274A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147,095
; CURRENT FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331,631A
; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 666
```

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TYPE: PRT
; ORGANISM: Macadamia integrifolia
US-10-147-095-1

Query Match      97.0%: Score 3227; DB 14; Length 666;
Best Local Similarity 96.6%: Pred. No. 9.3e-248;
Matches 604; Conservative 9; Mismatches 12; Indels 0; Gaps 0;

QY 1 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOCCORRCROQESDPQQOY 60
DB 42 QCMOLETSGMRRVCSCDCKRFEEDIDMSKYDNQEDPTECOCCORRCROQESDPQQOY 101
QY 61 CORCKEICEEEYNNORDPQQOYEQCKRCORRETPRHMOICQRCERYEKEKXQ 120
DB 102 CORCKEICEEEYNNORDPQQOYEQCKRCORRETPRHMOICQRCERYEKEKXQ 161
QY 121 QKRYEQOREDEEYERMEKEDNKRDPQOREYEDCRRRCQOEPRQHCQLRCREQOR 180
DB 162 QKRYEQOREDEEYERMEKEDNKRDPQOREYEDCRRRCQOEPRQHCQLRCREQOR 221
QY 181 QHGGGDLMPORGGSGRYEGBEGEKQSDNPYYFDEBSLSTRFTEEGHISYLENFGYRSK 240
DB 222 QHGGGDMNMPORGGSGRYEGBEGEKQSDNPYYFDEBSLSTRFTEEGHISYLENFGYRSK 281
QY 241 LLRALKNYRLVLEANPNAFVLPTHLDADAILVIGRGALKMIHRDRESYNLECGDVI 300
DB 282 LLRALKNYRLVLEANPNAFVLPTHLDADAILVIGRGALKMIHRDRESYNLECGDVI 341
QY 301 RIPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 360
DB 342 RIPAGTTFYLLNRDNNEHLIAKFLQITSTPGQYKEFPFAGQONPEPYLSTFSKEILEAA 401
QY 361 LNTOTERLRGVLGQOREGVIIIRASQEQIRELTRDSESRWHIRRGSSSGPYLFPKR 420
DB 402 LNTOTERLRGVLGQOREGVIIIRASQEQIRELTRDSESRWHIRRGSSSGPYLFPKR 461
QY 421 PLYSNKYQAYEVKEDYRQLQDMDSYFIANTIGSNMGPFNTRSTKVVVVASGEADV 480
DB 462 PLYSNKYQAYEVKEDYRQLQDMDSYFIANTIGSNMGPFNTRSTKVVVVASGEADV 521
QY 481 EMACPHLSGRHGGGGRGGRHEEEDVHYEQVRAISKEALVVLAGHVVVVSSENEILL 540
DB 522 EMACPHLSGRHGGGGRGGRHEEEDVHYEQVRAISKEALVVLAGHVVVVSSENEILL 581
QY 541 LPAFGINANNHNNFLAGRENNVLOQIEPQAMELAFASRKEVEELFYSODESIFFPBPR 600
DB 582 LPAFGINANNHNNFLAGRENNVLOQIEPQAMELAFAPRAKEVESFNSODSIFFPBPR 641
QY 601 QHQOOSPRSTKQOQPLVSIIDFVG 625
DB 642 QHQOOSPRSTKQOQPLVSIIDFVG 666

RESULT 5
US-09-331-631a-3
; Sequence 3, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001APC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
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```

; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(28)
; NAME/KEY: PEPTIDE
; LOCATION: (29)...(666)
US-09-331-631a-3

```

```

Query Match      96.7%; Score 3215; DB 9; Length 666;
Best Local Similarity 96.6%; Pred. No. 8.3e-247;
Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

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QY 1 OCMQLETSQWRRCVSQCCKRFEEDIDMSKYDNDPOTECQCCCRRCQOESDPPQOY 60
DB 42 OCMQLETSQWRRCVSQCCKRFEEDIDMSKYDNDPOTDCCQCCCRRCQOESDPPQOY 101
QY 61 CORCKEICEESEEYNNRQDPQOQYEQCQRCQRETEPRHMOICQRCERAYEKERKQ 120
DB 102 CORCKEICEESEEYNNRQDPQOQYEQCQRCQRETEPRHMOICQRCERAYEKERKQ 161
QY 121 QKRYEQQRDEBEKYEERKMEKNDKRDPOQREYEDCRHCEQOEPRLQOCCORRCQOQR 180
DB 162 QKRYEQQRDEBEKYEERKMEKNDKRDPOQREYEDCRHCEQOEPRLQOCCORRCQOQR 221
QY 181 QHGRGGDLINPQGGSGRVEEGEEKSDNPYPFDRSLSTRFTEBHGHSVLENFYGRSK 240
DB 222 QHGRGGDLINPQGGSGRVEEGEEKSDNPYPFDRSLSTRFTEBHGHSVLENFYGRSK 281
QY 241 LLRLKNRYLVLEANNPNAFVLPTHLDADAILLVITGGRGALKMIRHNDRESYNLECGDYI 300
DB 282 LLRLKNRYLVLEANNPNAFVLPTHLDADAILLVITGGRGALKMIRHNDRESYNLECGDYI 341
QY 301 RIPAGTFFYLINRDNNEHLIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 360
DB 342 RIPAGTFFYLINRDNNEHLIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 401
QY 361 LNTQTERLRGLVGGQREGVITIRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 420
DB 402 LNTQTERLRGLVGGQREGVITIRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 461
QY 421 PLYSNKYGQAYEVKPEYRQLODMDVSVFIANTQSGMGGPFNTBSTKVVVVAASGEADV 480
DB 462 PLYSNKYGQAYEVKPEYRQLODMDVSVFIANTQSGMGGPFNTBSTKVVVVAASGEADV 521
QY 481 EMACPHLSGRHGRGGKGRHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 540
DB 522 EMACPHLSGRHGRGGKGRHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 581
QY 541 LFAFGINAQNNHENFLAGRERNVLOQIEPQAMELAFASRKEVEELFNSODESIFPPGPR 600
DB 582 LFAFGINAQNNHENFLAGRERNVLOQIEPQAMELAFAPRKEVEELFNSODESIFPPGPR 641
QY 601 QHQOQSPRSTKQOQPLVSIIDFVGF 625
DB 642 QHQOQSPRSTKQOQPLVSIIDFVGF 666

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```

RESULT 6
US-10-147-095-3
; Sequence 3, Application US/10147095
; Publication No. US2003017127481
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULAN23.001APC
; CURRENT APPLICATION NUMBER: US/10/147, 095
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: US/09/331, 631A

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; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 666
; TYPE: PRT
; ORGANISM: Macadamia integrifolia
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(28)
; NAME/KEY: PEPTIDE
; LOCATION: (29)...(666)
US-10-147-095-3

```

```

Query Match      96.7%; Score 3215; DB 14; Length 666;
Best Local Similarity 96.6%; Pred. No. 8.3e-247;
Matches 604; Conservative 7; Mismatches 14; Indels 0; Gaps 0;

```

```

QY 1 OCMQLETSQWRRCVSQCCKRFEEDIDMSKYDNDPOTECQCCCRRCQOESDPPQOY 60
DB 42 OCMQLETSQWRRCVSQCCKRFEEDIDMSKYDNDPOTDCCQCCCRRCQOESDPPQOY 101
QY 61 CORCKEICEESEEYNNRQDPQOQYEQCQRCQRETEPRHMOICQRCERAYEKERKQ 120
DB 102 CORCKEICEESEEYNNRQDPQOQYEQCQRCQRETEPRHMOICQRCERAYEKERKQ 161
QY 121 QKRYEQQRDEBEKYEERKMEKNDKRDPOQREYEDCRHCEQOEPRLQOCCORRCQOQR 180
DB 162 QKRYEQQRDEBEKYEERKMEKNDKRDPOQREYEDCRHCEQOEPRLQOCCORRCQOQR 221
QY 181 QHGRGGDLINPQGGSGRVEEGEEKSDNPYPFDRSLSTRFTEBHGHSVLENFYGRSK 240
DB 222 QHGRGGDLINPQGGSGRVEEGEEKSDNPYPFDRSLSTRFTEBHGHSVLENFYGRSK 281
QY 241 LLRLKNRYLVLEANNPNAFVLPTHLDADAILLVITGGRGALKMIRHNDRESYNLECGDYI 300
DB 282 LLRLKNRYLVLEANNPNAFVLPTHLDADAILLVITGGRGALKMIRHNDRESYNLECGDYI 341
QY 301 RIPAGTFFYLINRDNNEHLIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 360
DB 342 RIPAGTFFYLINRDNNEHLIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKEILEAA 401
QY 361 LNTQTERLRGLVGGQREGVITIRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 420
DB 402 LNTQTERLRGLVGGQREGVITIRASQEOIRELTRDSESRMHIRGESSRGPYNLFNKR 461
QY 421 PLYSNKYGQAYEVKPEYRQLODMDVSVFIANTQSGMGGPFNTBSTKVVVVAASGEADV 480
DB 462 PLYSNKYGQAYEVKPEYRQLODMDVSVFIANTQSGMGGPFNTBSTKVVVVAASGEADV 521
QY 481 EMACPHLSGRHGRGGKGRHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 540
DB 522 EMACPHLSGRHGRGGKGRHEEEDVHYEQVAKRLSKREAIIVVLAGHPVVFVSSGENEHL 581
QY 541 LFAFGINAQNNHENFLAGRERNVLOQIEPQAMELAFASRKEVEELFNSODESIFPPGPR 600
DB 582 LFAFGINAQNNHENFLAGRERNVLOQIEPQAMELAFAPRKEVEELFNSODESIFPPGPR 641
QY 601 QHQOQSPRSTKQOQPLVSIIDFVGF 625
DB 642 QHQOQSPRSTKQOQPLVSIIDFVGF 666

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```

RESULT 7
US-09-331-631a-8
; Sequence 8, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:

```

APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-09-331-631A-6

Query Match 32.8%; Score 1092.5; DB 9; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.4e-78;  
Matches 231; Conservative 115; Mismatches 179; Indels 77; Gaps 13;

QY 35 EDPQTECCQCCRCRQOESDPRQOQYCCQRCKEICEEBEENROR--DPOQYECQCRK 92  
DB 35 DDPYRYDCRRRCWMDTRGQKEQOQCEBCKSQYGEKDQQRHREDPQRRYECCQEC 94  
QY 93 QRRETEPHMOICQRCRRRYEKERKQOQKRYEQOREDEKEYERMEGDKNDPOORE 152  
DB 95 --RQEEHQOPOCQOQRCUKRFEQEQO-----SQRQ 123  
QY 153 YEDCRHCEQOE--PRLQYQCRQOQOQROHGRGDLMPORG-----GSGRYEEGBE 204  
DB 124 FOECQOHCQOEOREBEKQOQVRECREKYO-----NWRGEEBAEETEESBQ 175  
QY 205 KQSDNPFYFDRSLSTRFTEEGHISYLENFYGSKLLRALKNYRLVLEANPNAFVLP 264  
DB 176 EQSHNPFHHRHSFQSRREHGNFVLORFASRHPILRGINEPRLSTILEANPNTFVLP 235  
QY 265 HLDADAILVIGRGALMKIHRDNRESYNECGDIYIRPAGTFYILINDNNERLHIAKF 324  
DB 236 HCDAEKIYLVNNGRGLTFILTHEKESYNIYVGVVKKVPAQSTYVLANQDNKEKLIIVL 295  
QY 325 LQTSIPQYKEFPFAGQNPPEYLSKTEILEALNTOTERLGVG-----QORE 377  
DB 296 HRPVNNPQOFEFFPAGSQRPQSYLRAFSREILPEAFNTRSEQLDELFGGRQRRQOQ 355  
QY 378 GVIIRASQEQIRLRLRDSSESRMHIRGSESSRPYULFNKRPLYSKKYQAYEVKPED 437  
DB 356 GMPKASQEQIRALSQEAISPR---EKSGE--RFAFNLISQTPRYSNQNGRFFEACPE 409  
QY 438 YROLQDMVSYFIANTITGSMGPFNTRSTKYVVVVASGEADVEMACPHLSGRHGRGG 497  
DB 410 FROLQDINVTYSAQLONGSIFVPHYNSKATFVILVTEGNGYAEVVSHTLPRQSSYEBE 469  
QY 498 KRHEEEEV-----HYEQVRLSKREAVLVLAGHPVVFVSSGNENLLFAFG----- 545  
DB 470 EDEEEEOQEERSSGQYRKIRSLRGDIFVVPANFPVTFVASONQNLMTGTGLYNO 529  
QY 546 -INANNHENFLAGERNVLOQIEPOMELAFASRKEVEELFNSQDESIFFPGRQHQ 604  
DB 530 NINPDHQRIFVAGKINH-V-RQWDSQAKELAFGVSSRLVDEIFNSNPQESYFVS-RQOR 587  
QY 605 QS 606  
DB 588 AS 589

RESULT 8  
US-10-147-095-8  
Sequence 8, Application US/10147095  
Publication No. US20030171274A1

GENERAL INFORMATION:  
APPLICANT: Manners, John M.  
APPLICANT: Marcus, John Paul  
APPLICANT: Goulter, Kenneth C.  
APPLICANT: Green, Jodie L.  
TITLE OF INVENTION: ANTIMICROBIAL PROTEINS  
FILE REFERENCE: CULN23.001APC  
CURRENT APPLICATION NUMBER: US/10/147,095  
PRIOR FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: US/09/331,631A  
PRIOR FILING DATE: 1999-06-21  
PRIOR APPLICATION NUMBER: PCT/AU97/00874  
PRIOR FILING DATE: 1997-12-22  
PRIOR APPLICATION NUMBER: AU PO 4275  
PRIOR FILING DATE: 1996-12-20  
NUMBER OF SEQ ID NOS: 40  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 590  
TYPE: PRT  
ORGANISM: Gossypium hirsutum (cotton)  
US-10-147-095-8

Query Match 32.8%; Score 1092.5; DB 14; Length 590;  
Best Local Similarity 38.4%; Pred. No. 4.4e-78;  
Matches 231; Conservative 115; Mismatches 179; Indels 77; Gaps 13;

QY 35 EDPQTECCQCCRCRQOESDPRQOQYCCQRCKEICEEBEENROR--DPOQYECQCRK 92  
DB 35 DDPYRYDCRRRCWMDTRGQKEQOQCEBCKSQYGEKDQQRHREDPQRRYECCQEC 94  
QY 93 QRRETEPHMOICQRCRRRYEKERKQOQKRYEQOREDEKEYERMEGDKNDPOORE 152  
DB 95 --RQEEHQOPOCQOQRCUKRFEQEQO-----SQRQ 123  
QY 153 YEDCRHCEQOE--PRLQYQCRQOQOQROHGRGDLMPORG-----GSGRYEEGBE 204  
DB 124 FOECQOHCQOEOREBEKQOQVRECREKYO-----NWRGEEBAEETEESBQ 175  
QY 205 KQSDNPFYFDRSLSTRFTEEGHISYLENFYGSKLLRALKNYRLVLEANPNAFVLP 264  
DB 176 EQSHNPFHHRHSFQSRREHGNFVLORFASRHPILRGINEPRLSTILEANPNTFVLP 235  
QY 265 HLDADAILVIGRGALMKIHRDNRESYNECGDIYIRPAGTFYILINDNNERLHIAKF 324  
DB 236 HCDAEKIYLVNNGRGLTFILTHEKESYNIYVGVVKKVPAQSTYVLANQDNKEKLIIVL 295  
QY 325 LQTSIPQYKEFPFAGQNPPEYLSKTEILEALNTOTERLGVG-----QORE 377  
DB 296 HRPVNNPQOFEFFPAGSQRPQSYLRAFSREILPEAFNTRSEQLDELFGGRQRRQOQ 355  
QY 378 GVIIRASQEQIRLRLRDSSESRMHIRGSESSRPYULFNKRPLYSKKYQAYEVKPED 437  
DB 356 GMPKASQEQIRALSQEAISPR---EKSGE--RFAFNLISQTPRYSNQNGRFFEACPE 409  
QY 438 YROLQDMVSYFIANTITGSMGPFNTRSTKYVVVVASGEADVEMACPHLSGRHGRGG 497  
DB 410 FROLQDINVTYSAQLONGSIFVPHYNSKATFVILVTEGNGYAEVVSHTLPRQSSYEBE 469  
QY 498 KRHEEEEV-----HYEQVRLSKREAVLVLAGHPVVFVSSGNENLLFAFG----- 545  
DB 470 EDEEEEOQEERSSGQYRKIRSLRGDIFVVPANFPVTFVASONQNLMTGTGLYNO 529  
QY 546 -INANNHENFLAGERNVLOQIEPOMELAFASRKEVEELFNSQDESIFFPGRQHQ 604  
DB 530 NINPDHQRIFVAGKINH-V-RQWDSQAKELAFGVSSRLVDEIFNSNPQESYFVS-RQOR 587  
QY 605 QS 606  
DB 588 AS 589

RESULT 9

```

? APPLICANT:Green, Jodie L.
? TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
? FILE REFERENCE: CULIN23.001AB-C
? CURRENT APPLICATION NUMBER: US/10/147,095
? CURRENT FILING DATE: 2002-05-15
? PRIOR APPLICATION NUMBER: US/09/331,631A
? PRIOR FILING DATE: 1999-06-21
? PRIOR APPLICATION NUMBER: PCT/A997/00874
? PRIOR FILING DATE: 1997-12-22
? PRIOR APPLICATION NUMBER: AU PO 4275
? PRIOR FILING DATE: 1996-12-20
? NUMBER OF SEQ ID NOS: 40
? SOFTWARE: FastSeq for Windows Version 3.0
? SEQ ID NO 7
? LENGTH: 525
? TYPE: PRT
? ORGANISM: Theobroma cacao

US-10-147-095-7

Query Match          30.5%; Score 1015; DB 14;
Best Local Similarity 41.1%; Pred. No. 5,4e-72;
Matches 211; Conservative 91; Mismatches 158.
Indels 54; Gaps 11

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[illegible]

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RESULT 11
US-10-264-303-3
/ Sequence 3, Application US/10264303
/ Publication No. US20030124060A1
/ GENERAL INFORMATION:
/ APPLICANT: Roux, Kenneth
/ APPLICANT: Sathe, Shridhar
/ APPLICANT: Teuber, Suzanne
/ TITLE OF INVENTION: Purified linear Epitopes from Cashew Nuts, Nucleic Acids Encoding
/ TITLE OF INVENTION: Therefore and Associated Methods
/ FILE REFERENCE: 28396 and 30728
/ CURRENT APPLICATION NUMBER: US/10/264,303
/ CURRENT FILING DATE: 2002-10-03

```

```

; PRIOR APPLICATION NUMBER: 60/326,793
; PRIOR FILING DATE: 2001-10-03
; PRIOR APPLICATION NUMBER: 60/371,774
; PRIOR FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 3
; LENGTH: 540
; TYPE: PRT
; ORGANISM: Anacardium occidentale
US-10-264-303-3

```

Query Match 30.5%; Score 1015; DB 14; Length 540;

Best Local Similarity 38.2%; Pred. No. 5,6e-72;

Matches 213; Conservative 112; Mismatches 181; Indels 52; Gaps 11;

```

QY 54 DPROQOYQRCCKEICEEESEYRNORDPOQOYEOQCKQCRRETPRMQICQRCERY 113
DB 31 DPELQO-----CKHCKYQROYD-----EQKEQCVKCE-----KY 62
QY 114 EKEKROQRYEEOQREDEEYERMEKGDNRDPQOQREYEDCRHHCQOEPRLOQO-CQ 172
DB 63 YKEKGREREHE-----EESEWGTGVDEPSTHEBAEKHLSQCMQOCEROGGQOKOLCR 118
QY 173 RRCQOQROHGRGGLMNPORGSGRYEGE-EKQSDNPYYFDESLSTRPTEGHISV 231
DB 119 FRQCRRYKKE-RGQH--NYKREDEDEDEDEAESEEDENPYFEDEFTTKVTEGKQVVL 175
QY 232 LENFGRSKLRLALKNYRLVLEANNPNAFVLPTHLDADAILLVIGRGALKMIRHNRRES 291
DB 176 LPKFQOKSKLHAKRYLAVLVANPQAFVPSHMDADISIFVSGRGITITILENKRES 235
QY 292 YNLBGQVIRIPAGTTFYLINRDNNEHLIAKFLQITISTPGQYKEFPFAGGONPEPYLST 351
DB 236 INVRQGDIVISSGTFPIYANNDENEKLYVQFLRPVNLPGHFEVHGCGENPESFYRA 295
QY 352 FSKELLEALNTQTERLNGVLGQOREGYIIRASOQIRELTRDDESESRMHIRGESSR 411
DB 296 FSWELLEALALKTSLKOTLEKLFQKQOGTITMKASKQOIRAMSRGSGPKIMPT--EST 352
QY 412 GPYNLFNKRPLYSNKYGAYEVKPEDYROLQDMQVSVFIANTTQSGMMGPFNTSTKTV 471
DB 353 GSPFLFKDPQSGNSKYGQGFPAERIDYPLLEKLDVVSVAANTTKGMSVFPNSATXIA 412
QY 472 VASGEADVEMACPHLSGRHGGRGGKHEEVEHYEQVBARLSKREAIIVLAGHPVVF 531
DB 413 IVSSEGCVEIACPHLS-----SKSHPSYKRLARIRKQDTVFIYPAGHPAT 461
QY 532 VSSGNNLLPFAFGINAQNNHENFLAGERNVLQOIEPQAMELAPASRKEVEELFNSOD 591
DB 462 VASGNNELIYCFEYNAEGNIRYTLAGK-KNIIKMEKAEKELAFKMGEEVDKVFQKOD 520
QY 592 ESIFPGRQHQOQSPRS 609
DB 521 BEFFQGPBWRKKEKGRRA 538

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RESULT 12  
US-10-264-303-4

; Sequence 4, Application US/10264303

; Publication No. US20030124060A1

; GENERAL INFORMATION:

; APPLICANT: Roux, Kenneth

; APPLICANT: Sahe, Shridhar

; APPLICANT: Teuber, Suzanne

; TITLE OF INVENTION: Purified linear Epitopes from Caehew Nuts, Nucleic Acids Encoding

; FILE REFERENCE: 28396 and 30728

; CURRENT APPLICATION NUMBER: US/10/264,303

; PRIOR FILING DATE: 2002-10-03

; PRIOR APPLICATION NUMBER: 60/326,793

; PRIOR FILING DATE: 2001-10-03

; PRIOR APPLICATION NUMBER: 60/371,774

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; PRIOR FILING DATE: 2002-04-11
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 4
; LENGTH: 536
; TYPE: PRT
; ORGANISM: Anacardium occidentale
US-10-264-303-4

```

Query Match 30.5%; Score 1014; DB 14; Length 536;

Best Local Similarity 38.0%; Pred. No. 6,7e-72;

Matches 212; Conservative 113; Mismatches 181; Indels 52; Gaps 11;

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QY 54 DPROQOYQRCCKEICEEESEYRNORDPOQOYEOQCKQCRRETPRMQICQRCERY 113
DB 27 DPELQO-----CKHCKYQROYD-----EQKEQCVKCE-----KY 58
QY 114 EKEKROQRYEEOQREDEEYERMEKGDNRDPQOQREYEDCRHHCQOEPRLOQO-CQ 172
DB 59 YKEKGREREHE-----EESEWGTGVDEPSTHEBAEKHLSQCMQOCEROGGQOKOLCR 114
QY 173 RRCQOQROHGRGGLMNPORGSGRYEGE-EKQSDNPYYFDESLSTRPTEGHISV 231
DB 115 FRQCRRYKKE-RGQH--NYKREDEDEDEDEAESEEDENPYFEDEFTTKVTEGKQVVL 171
QY 232 LENFGRSKLRLALKNYRLVLEANNPNAFVLPTHLDADAILLVIGRGALKMIRHNRRES 291
DB 172 LPKFQOKSKLHAKRYLAVLVANPQAFVPSHMDADISIFVSGRGITITILENKRES 231
QY 292 YNLBGQVIRIPAGTTFYLINRDNNEHLIAKFLQITISTPGQYKEFPFAGGONPEPYLST 351
DB 232 INVRQGDIVISSGTFPIYANNDENEKLYVQFLRPVNLPGHFEVHGCGENPESFYRA 291
QY 352 FSKELLEALNTQTERLNGVLGQOREGYIIRASOQIRELTRDDESESRMHIRGESSR 411
DB 292 FSWELLEALALKTSLKOTLEKLFQKQOGTITMKASKQOIRAMSRGSGPKIMPT--EST 348
QY 412 GPYNLFNKRPLYSNKYGAYEVKPEDYROLQDMQVSVFIANTTQSGMMGPFNTSTKTV 471
DB 349 GSPFLFKDPQSGNSKYGQGFPAERIDYPLLEKLDVVSVAANTTKGMSVFPNSATXIA 408
QY 472 VASGEADVEMACPHLSGRHGGRGGKHEEVEHYEQVBARLSKREAIIVLAGHPVVF 531
DB 409 IVSSEGCVEIACPHLS-----SKSHPSYKRLARIRKQDTVFIYPAGHPAT 457
QY 532 VSSGNNLLPFAFGINAQNNHENFLAGERNVLQOIEPQAMELAPASRKEVEELFNSOD 591
DB 458 VASGNNELIYCFEYNAEGNIRYTLAGK-KNIIKMEKAEKELAFKMGEEVDKVFQKOD 516
QY 592 ESIFPGRQHQOQSPRS 609
DB 517 BEFFQGPBWRKKEKGRRA 534

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RESULT 13

US-10-425-114-60246

; Sequence 60246, Application US/10425114

; Publication No. US20040034888A1

; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong

; APPLICANT: Zhou, Yihua

; APPLICANT: Kovalic, David K.

; APPLICANT: Screen, Steven E

; APPLICANT: Tabaska, Jack E

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53313)B

; CURRENT APPLICATION NUMBER: US/10/425,114

; PRIOR FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 73128

; SEQ ID NO 60246

; LENGTH: 582

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; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3600-011-E12_FLI.pep
US-10-425-114-60246

```

```

Query Match          26.9%; Score 894; DB 15; Length 582;
Best Local Similarity 36.9%; Pred. No. 2,66-62;
Matches 209; Conservative 88; Mismatches 179; Indels 90; Gaps 13;

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QY 73 EBYNRDPQQOYEQCKRCQRETEPRHMQ-ICQRCRRYKKEKQKQKRYEEOQRD 131
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 35 EDDNNHHHGKSGQCVARCEDR---PWHQPRCLQOC-REBEREKQGRSRHEDRSG 90
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 132 EEKYEERKQKDNKRDPOQREYEDCRHCEQQRRLQYCCQRCQRCQRCQRCGRGDLMP 191
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 91 EGSSSD-----ERQF----- 101
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 192 QRGSGRYEEGEEKQSD-NPYFDERSLSTRFTEBGHISYLENFYGRSKLLRALKNYRL 250
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 102 -----KEKQKRRPYFDRSRFRVVRSEQSLRVLRFDEVSRLRLGIRDYRV 150
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 251 VLEANPNAFVLPYHLDAIDLIVYIGRGALKMIHRDNRESYNLECGDVIRIPAGTTFYL 310
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 151 AVEANPNSFVVPSTDAHCICVYAEGBGVTTIENGERRSYTIKQGHVFVAPAGAVTYL 210
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 311 INRDNNERLHIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKELLALNTQTERLRG 370
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 211 ANTDRKLVIAKILHTISVPGEPQFFPGGRNPESFLSFSKSIQRAAYKTSDDLRLR 270
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 371 VLQO--QREGVIRASQEQIRELTRDSE--SRWHIRRGESSRGPNYLFNKRPLYSN 425
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 271 LFGRRGQDKGIIVRAETEQRRLRRHASEGHGPHWLPFPGE-SRGPYSLLDQRPSTIAN 329
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 426 KYGQAYEVKEDYRQLODMQVSFNIANTOGSMGPFNTRSTKYVVVYASGEADVEMACP 485
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 330 QHGQLEADARSFHDLEHVDVSFANITAGSMAPLEFNTRSFKAIVYVNGKGAELVCP 389
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 486 HLSGRHG---GRGGKGRHEEEVEVH-----YEQVRARLSKREAVIVLAGHPVF 531
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 390 HRQSGGSEBERDKGRSEEESESEBQEBAGQGYHTIRARLSPGTAFVVPAGHPVFA 449
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 532 VSSGNNELLFAPGINAQNHNENFLAGERNVLOQIEPQAMELAPASRKEVEBELFNSQD 591
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 450 VASRSNLIQVCFEYHADRNKVKFLAGAD-NVLQKLDVAKALSPASKAEVDEVLSRR 508
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 592 ESIFPQPRQ--HQOQSPSTKQOQ 614
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 509 EKGFLPGPKESGHEREREQEEERE 534
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

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RESULT 14
US-10-425-114-39532
; Sequence 39532, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jindong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 39532
; LENGTH: 584
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:

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; OTHER INFORMATION: Clone ID: 700264357_FLI.pep
US-10-425-114-39532

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Query Match          26.9%; Score 894; DB 15; Length 584;
Best Local Similarity 36.9%; Pred. No. 2,66-62;
Matches 209; Conservative 88; Mismatches 179; Indels 90; Gaps 13;

```

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QY 73 EBYNRDPQQOYEQCKRCQRETEPRHMQ-ICQRCRRYKKEKQKQKRYEEOQRD 131
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DB 37 EDDNNHHHGKSGQCVARCEDR---PWHQPRCLQOC-REBEREKQGRSRHEDRSG 92
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 132 EEKYEERKQKDNKRDPOQREYEDCRHCEQQRRLQYCCQRCQRCQRCQRCGRGDLMP 191
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 93 EGSSSD-----ERQF----- 103
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 192 QRGSGRYEEGEEKQSD-NPYFDERSLSTRFTEBGHISYLENFYGRSKLLRALKNYRL 250
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 104 -----KEKQKRRPYFDRSRFRVVRSEQSLRVLRFDEVSRLRLGIRDYRV 152
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 251 VLEANPNAFVLPYHLDAIDLIVYIGRGALKMIHRDNRESYNLECGDVIRIPAGTTFYL 310
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 153 AVEANPNSFVVPSTDAHCICVYAEGBGVTTIENGERRSYTIKQGHVFVAPAGAVTYL 212
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 311 INRDNNERLHIAKFLQITSTPGQYKEFPFAGGONPEPYLSTFSKELLALNTQTERLRG 370
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 213 ANTDRKLVIAKILHTISVPGEPQFFPGGRNPESFLSFSKSIQRAAYKTSDDLRLR 272
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 371 VLQO--QREGVIRASQEQIRELTRDSE--SRWHIRRGESSRGPNYLFNKRPLYSN 425
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 273 LFGRRGQDKGIIVRAETEQRRLRRHASEGHGPHWLPFPGE-SRGPYSLLDQRPSTIAN 331
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 426 KYGQAYEVKEDYRQLODMQVSFNIANTOGSMGPFNTRSTKYVVVYASGEADVEMACP 485
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 332 QHGQLEADARSFHDLEHVDVSFANITAGSMAPLEFNTRSFKAIVYVNGKGAELVCP 391
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 486 HLSGRHG---GRGGKGRHEEEVEVH-----YEQVRARLSKREAVIVLAGHPVF 531
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 392 HRQSGGSEBERDKGRSEEESESEBQEBAGQGYHTIRARLSPGTAFVVPAGHPVFA 451
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 532 VSSGNNELLFAPGINAQNHNENFLAGERNVLOQIEPQAMELAPASRKEVEBELFNSQD 591
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 452 VASRSNLIQVCFEYHADRNKVKFLAGAD-NVLQKLDVAKALSPASKAEVDEVLSRR 510
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
QY 592 ESIFPQPRQ--HQOQSPSTKQOQ 614
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 511 EKGFLPGPKESGHEREREQEEERE 536
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

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```

RESULT 15
US-09-331-631A-22
; Sequence 22, Application US/09331631A
; Patent No. US20020168392A1
; GENERAL INFORMATION:
; APPLICANT: Manners, John M.
; APPLICANT: Marcus, John Paul
; APPLICANT: Goulter, Kenneth C.
; APPLICANT: Green, Jodie L.
; TITLE OF INVENTION: ANTIMICROBIAL PROTEINS
; FILE REFERENCE: CULN23.001ABC
; CURRENT APPLICATION NUMBER: US/09/331,631A
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: PCT/AU97/00874
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: AU PO 4275
; PRIOR FILING DATE: 1996-12-20
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 22
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Maize
US-09-331-631A-22

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Query Match		26.7%;	Score 888;	DB 9;	Length 582;
Best Local Similarity		36.7%;	Pred. No. 7.8e-62;		
Matches 208;		Conservative 87;	Mismatches 181;	Indels 90;	Gaps 13;
QY	73	EEYNRQRPDPOOYECQCRQRETEPRHMO-ICQRCERYEKEKQKRYEQRED	131		
Db	25	EDDNHHHGHKSGQCVARCEDR---PWHQRPCLCQC-REBEREKREGRSHHEADRSSG	80		
QY	132	EEKYEEMKEDDNKRPQOREYEDCRHCEQOEPRLOYQCRRCQEQQRQHGGDLMP	191		
Db	81	EGSSSED-----EREQE-----	91		
QY	192	QRGSGRYEEBEEKSD-NPYFEDERSLSTRPRTEEGHISYLENFGSKLLRAKNRYL	250		
Db	92	-----KEQKDRRPYPVFDRRSFRVVRVSQSLRVLRPFDEVSRLLRGIRDYRV	140		
QY	251	VLLLEANPNAFVLPFTLADADAILLVIGRGALKMIRDNRESYNLECGDIVIRIPAGTTFYL	310		
Db	141	AVLEANPNSFVPSHTDAHCICYVAEGSVTTIENGERRSYTIKQGHVFAVAPAGAVTYL	200		
QY	311	INRDNERLHIAKFLQITSTPGQYKEFPFAGQNPPEYLSFESKEILEALNTQTERLIG	370		
Db	201	ANTDGRKKLVITKIHTISVPGEFQFFPGGGRNPESFLSSFSKSIQRAAYKTSDDLRLR	260		
QY	371	VLGQ--QREGVIRASQROIRELTRDSE---SRWHIRRGESSRGPPYNLFNKREPLYSN	425		
Db	261	LFGRRGQDKGILIVRATREOTRELRHASEGGHGPMPPLPPGE-SRGPYSLDQRPSTAN	319		
QY	426	KYGQAYEVKPEDYRQLODMDVSVFIANTITQSGMMGPFNTRSTKVVVVAVSGEADVEMACP	485		
Db	320	QHGOIYEADARSFHDLEHDVSVSFANITAGSMASAPLFTNRSFKIAYVPNGKGYAEIVCP	379		
QY	486	HLSGRHG---GRGGGKRHEEEVEH-----YEQVRAISKREAIIVLAGHPVF	531		
Db	380	HRQSQGSESRERBRDKGRSRSEEESEESSEOEBAQGYHTIRARLSPGTAFVVPAGHPVA	439		
QY	532	VSSGNEMLLFAFGINAQNNHENFLAGRENVLQOIEPQAMELFAASRKEVEELFNQSD	591		
Db	440	VASRDSNLQIVCFEYHADRNKVFILAGAD-NVLQKLDHVAKALSPASKAEVDEVLAGSRR	498		
QY	592	ESIFPGGPRQ---HQOQSPRSTKQOQ	614		
Db	499	EKGFLPGPEESGGHEREROEEREE	524		

Search completed: February 15, 2005, 18:33:54  
Job time : 105.91 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 15, 2005, 17:27:45 ; Search time 40.742 Seconds  
(without alignments)  
1220.271 Million cell updates/sec

Title: US-09-331-631A-3

Perfect score: 3532

Sequence: 1 MAITNSNCSLFLSLFL.....SSRSTKQQQPLVSLDFVGF 666

Scoring table: BLOSUM62DX

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1145	33.4	566	1	US-07-955-905A-2 Sequence 2, Appl
2	1145	33.4	566	1	US-07-955-905A-22 Sequence 22, Appl
3	1069	30.3	587	1	US-07-955-905A-23 Sequence 23, Appl
4	866.5	24.5	626	4	US-09-106-872A-4 Sequence 24, Appl
5	853.5	24.2	605	1	US-07-955-905A-24 Sequence 24, Appl
6	833.5	23.6	571	1	US-07-955-905A-25 Sequence 25, Appl
7	798	22.6	524	4	US-09-424-283-1 Sequence 1, Appl
8	797.5	22.6	489	4	US-09-424-283-3 Sequence 3, Appl
9	765	22.7	448	4	US-09-323-195A-18 Sequence 18, Appl
10	739	20.9	444	4	US-09-424-283-2 Sequence 2, Appl
11	704.5	19.9	410	1	US-07-955-905A-26 Sequence 26, Appl
12	694.5	19.7	523	4	US-09-323-195A-17 Sequence 17, Appl
13	689.5	19.5	409	4	US-09-424-283-4 Sequence 4, Appl
14	557	13.5	421	1	US-07-955-905A-17 Sequence 27, Appl
15	476	13.5	335	4	US-09-106-872A-17 Sequence 17, Appl
16	237	6.7	611	4	US-09-216-393B-81 Sequence 81, Appl
17	226	6.4	1898	1	US-08-056-200-94 Sequence 94, Appl
18	226	6.4	1898	2	US-08-800-644-94 Sequence 94, Appl
19	226	6.4	1898	2	US-09-538-092-1280 Sequence 1280, Ap
20	218.5	6.2	1162	2	US-08-728-323A-2 Sequence 2, Appl
21	218.5	6.2	1162	3	US-09-298-568-2 Sequence 2, Appl
22	218.5	6.2	1162	4	US-09-410-399-2 Sequence 2, Appl
23	218.5	6.2	1162	4	US-09-894-273-2 Sequence 2, Appl
24	206	5.8	608	4	US-09-270-767-3937 Sequence 3237, A
25	205.5	5.8	1564	4	US-10-144-198-2 Sequence 2, Appl
26	205.5	5.8	1564	4	US-10-144-198-2 Sequence 4, Appl
27	205.5	5.8	1564	4	US-10-144-198-4 Sequence 4, Appl

28	195	5.5	1375	3	US-09-722-139-2	Sequence 2, Appl
29	195	5.5	1375	3	US-09-721-832-2	Sequence 2, Appl
30	195	5.5	1375	4	US-09-721-832-2	Sequence 2, Appl
31	194	5.5	148	4	US-09-639-207-15	Sequence 15, Appl
32	183.5	5.2	1239	4	US-09-688-188B-13	Sequence 13, Appl
33	183.5	5.2	1239	4	US-09-291-417D-13	Sequence 13, Appl
34	182	5.2	735	4	US-10-164-595-80	Sequence 80, Appl
35	182	5.2	784	4	US-10-164-595-79	Sequence 79, Appl
36	182	5.2	843	4	US-10-164-595-54	Sequence 54, Appl
37	175	5.0	919	4	US-09-949-016-5954	Sequence 6954, Ap
38	174	4.9	779	4	US-10-164-595-56	Sequence 56, Appl
39	170	4.8	235	4	US-09-270-767-36681	Sequence 36681, A
40	170	4.8	235	4	US-09-270-767-51898	Sequence 51898, A
41	168.5	4.8	505	4	US-09-248-786A-19223	Sequence 19253, A
42	168	4.8	425	4	US-09-270-767-45380	Sequence 45380, A
43	165.5	4.7	316	3	US-08-098-337E-31	Sequence 31, Appl
44	165.5	4.7	316	3	US-08-462-625-31	Sequence 31, Appl
45	163.5	4.6	793	4	US-09-538-092-1271	Sequence 1271, Ap

ALIGNMENTS

```
RESULT 1
US-07-955-905A-2
Sequence 2, Application US/07955905A
Patent No. 5770433
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
TITLE OF INVENTION: PRECURSOR
NUMBER OF SEQUENCES: 28
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955, 905A
FILING DATE: 21-JAN-1993
CLASSIFICATION: 435
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 566 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-955-905A-2
Query Match 32.4%; Score 1145; DB 1; Length 566;
Best Local Similarity 41.1%; Pred. No. 3.9e-95;
Matches 237; Conservative 107; Mismatches 175; Indels 58; Gaps 13;
109 ICEEEENR---RRDPOQYEOCERCORHETEPHMQTCCORCERKRY 165
: : : : : : : : : : : : : : : : : : : : : : : : : :
22 LCGSVAYGRQYEDPRQYEQCRCESEATEREEOEQRCER-----EY 70
166 EEOQREDEKYEERKKEEDNRDPOQREYEDCRRCEQOE--PROYOCORCERQORH 223
: : : : : : : : : : : : : : : : : : : : : : : : : :
71 KEQQRQEEEL-----QROYQCCQRCQCGQOQOQOQOQOQOQOQOQOQOQOQO 116
224 GRGDLINPQGGGSGRYEEGSKQSDNYRDE-RSLSTRRTTEGHSVLENFGRSKL 282
117 ER-GEHEVYHMKKORSEEGQOQNNYVFPKRSFQTRFRDEGNGKTLQRFENSP 175
283 LRLAKNYELVLEENPNFVLPHTLDDADAILVTGSRGALKMIHRDNESYVLECGDYIR 342
: : : : : : : : : : : : : : : : : : : : : : : : : :
176 LKGINDYLANFENPNFLLPHHCDALITFVNGKTLITFVTHENKESINVQKGTYS 235
343 IPAGTFYLLNRDNNERLHIAKFLQTLSTPQOYKEFPFAGGQNPPEYVYSTSKETLEAL 402
: : : : : : : : : : : : : : : : : : : : : : : : : :
236 VPAGSTVYVVSQDNQEKLTIVALLPVSFGKVELFPFAGNNKPSYVGAFSVEVLETVF 295
DB
```

QY	403	NTAERELRGVLGGOR-----EGVILISASOEOLRELTRODSERKMHITRGCESSRCP	454
Db	296	NTGREKTEELLEOROKQKQOQOQGMFRKAKEQOLRAISOATSR---HRRGE--RLA	349
QY	455	YNIENKREPLYSNKYGAYEVKEPDYKROLDMDVSVFIANITOGSMKGFPFNTSRSTKYVV	514
Db	350	INILISOPYVSNONGRFPFACEDFEQOFQMDVAASAKLNGAIFVPHVNSKATFVFV	409
QY	515	ASGEADVEMACPHLSRHHGRRGK--RHEEEDV-----HYDYAKLSKREALTYV	566
Db	410	TDGYGYAQNACPHLSQOSGSGSGRDRREQDEESEEETFEPEQVAPLSPGGVFAFA	469
QY	567	GHPVIVVSSGNENILLFAFGINAONNHENFLGRERNYLOQIEPQAMELFAAPRKEVEE	626
Db	470	GHAVTFFASXDCPLNVAFLGNAONNQRITLAKG-KQLVRQMDSEAKELSGVPSKLYDN	528
QY	627	LFSODESTFFPPCPRHQOQSSRSRTKQOQPLVSTLDF	663
Db	529	IFNNPDESTYMFSGQQR--RDERRGNPLASTLDF	562

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RESULT 2
US-07-955-905A-22
; Sequence 22, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 566 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Theobroma cacao
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..566
; OTHER INFORMATION: /note="67 kD Precursor Protein"
; US-07-955-905A-22

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Query Match	32.4%	Score 1145	DB 1	Length 566
Best Local Similarity	41.1%	Pred. No. 3.9e95		
Matches 237	Conservative 107	Mismatches 175	Indels 58	Gaps 13

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QY 108 ICEEEEEYR---QBDPOOYEOCCORCORHETPRMOCOCORRRYKKEKQKQRY 165
D 22 LCSGVSAYRKQYEDPPOQYEOCCORRCSATETEROEOEOCR-----EY 70
QY 166 EEOQREDEBEKYERMKEEDNKRDPPOREYEDCRRRCQDE--PROOYOCORRCREOROH 223
D 71 KEQORQOEEL-----QRYOQOCGRCEQOQGGREOQORRCMWRYEQ 116
QY 224 GGGGGLINPQRGSGRVEEGEKSQDNPPYFDE-RSLSTFRTEBEGHSLVDENPYGRSKL 282
D 117 ER-GEHEHYHHHKKRRSEEGQORNNPYFPKRSQTFRFBEEGNFILORFANSP 175
QY 283 LRLATNRYLVLLLEAPNPFVLTPLDADATILVTGGGALKMTHRBNESYVLCEGDYIR 342
D 176 LKGINVDYLLAFEANPNFTILPHDCDEALFYATNGKGLITFYTHNKSINVAQGTAVS 235

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QY      343  IPGTFEYLLINRNNRRLIIAKFLOTSTPCGYKEFFPAGQNEPILSTFSKILLEAL 402
Dp      236  VPAGSTVYVVSQONQKLTIAVALPVMSPGKTELFPPAGNNKRKESYGAFTSEVLETV 235
QY      403  NTQAEELRGVLTQGR-----EGVITSAQOQIRLRTDSDSRMMHIRRGSESRGP 454
Dp      296  NTREKLEETLEBQKQKQKQKQOQOQMFKRAPEQIRALISOATSPR---HRGE--RLA 349
QY      455  YNLFNKRPLYSNKYGAQVAEVEKPEDEYRQLODMDVSAFLANTQSGMMQPPFNTRSTKVYV 514
Dp      350  INLLSQSPVYSNONGRFFPEACEPEDEPSQCPQNMDDVAVSAFKLNGQALPVPHNNSKATFVPY 409
QY      515  ASGEADVEMACHTLSGRHGRGRGK--RHEEEDV-----HYQVQAALSKKEALVVPY 566
Dp      410  TQGGYQAQMAECHLSSQSGSQSGQODRRBDEEESSEETGGEFQVVAAPLSPDVAAPA 469
QY      567  GHPVVFVSSGNENLLFAFGIQAONNNHNPADGERNAVLTQOIEBQAMETLFAAPRKEVE 626
Dp      470  GHAVTFFPAKSDPLVAVAFGIQAONNQRIFLAGK-KULVQWMBEAKELSGVBSKLVON 528
QY      627  LFNQSDSEIFPPGPRHOHQSGSRSTKQOQPIVLTDF 663
Dp      529  IFNNPDSITFMSFSQORQ---RDERKNPPLASTLDP 562

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RESULT 3
US-07-955-905A-23
; Sequence 23, Application US/079555905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICATION:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955,905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 587 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Gossypium hirsutum
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..587
; OTHER INFORMATION: /note= "Vicilin from G. hirsutum"
US-07-955-905A-23

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Query Match	30.3%;	Score 1069;	DB 1;	Length 587;
Best Local Similarity	38.1%;	Pred. No. 3.3e-88;		
Matches 228; Conservative	115;	Mismatches 182;	Indels 74;	Gaps 14;

[illegible]

Qy	247	QSDNYYYPBEBRLSTRFRREEBGHISVLENFPGSKLLRALNRYVLLLENPAFLPTH	3066
Db	176	OSHNFPHFHRFPQSFRFEHGNFRLQGFASHPIRLGRINERLSILENPTTEVLPBH	2353
Qy	307	LDADAILVTGGRGALKMHRDNRESYNECCGVIRIPAGTTEYLLNRDNNEBHLAKFL	3666
Db	236	CDAEKIYLVYTNRGITLFTLHENKESEYNNVPGVAVAPAGSTIYLLANQDKKELIIVLH	2253
Qy	367	QTSITPGQYKEFPFAGGNPEPYLSTFSKEILEBALNTOAERLGVLG-----QOREG	419
Db	296	RPVNNPPOGEFFFPAGSQRPQSYLRAFSEILLEPAFTNTRSEQDELFGGRQSHRQGGG	3555
Qy	420	VIASSQEBIRLDRDSDSRKMHIRGSESSGPNLFPKRLYENKTYQAEYKPEDY	4797
Db	356	MFKKASQEOIRALSOEATSPR-----EKSGB--RFAENLVYRTERYSNONGRFPFEACPRF	409
Qy	480	ROLQOMDVSVFANTIQSGMMGPFNTRSTKTVVNVASGEADVEMACPHLSGRHGGRRGK	539
Db	410	ROLSTIINTVSLQNLQSSIFVPHYNSKATFVVLVNEGNGYVMBWBPBLPGRQSFEEBE	4639
Qy	540	RHEEEDV-----HYEYKARLSKKEALIVVPVGHVVPVSSGNENILLFAFG-----IN	588
Db	470	QOOEQOEERBSRGQYRKIRSQLSRGDIPIVPANPFPVTFAVSQNLIMTGFGLYMNIN	529
Qy	569	AONHNENFLAGERNVLOQIEPQAMELAPAPKVEYBELFNSQDESTFFPGPQHQOQS	647
Db	530	PDHNRIFPAAGINHY--RQWDSQAKELAGVSSRLVDEINNNPOSYPFS--RQORAS	586

[illegible]

```

1 RESULT 4
2 US-09-106-872A-4
3 / Sequence 4, Application US/09106872A
4 / Patent No. 6486311
5 / GENERAL INFORMATION:
6 / APPLICANT: Burks Jr., A. Wesley
7 / APPLICANT: Stanley, J. Steven
8 / APPLICANT: Cockrell, Gael
9 / APPLICANT: King, Nina E.
10 / APPLICANT: Sampson, Hugh A.
11 / APPLICANT: Helm, Ricki M.
12 / APPLICANT: Bannou, Gary A.
13 / TITLE OF INVENTION: Peanut Allergens and Methods
14 / FILE REFERENCE: HS 103 CIP
15 / CURRENT APPLICATION NUMBER: US/09/106,872A
16 / PRIOR FILING DATE: 1999-06-28
17 / PRIOR APPLICATION NUMBER: PCT/US96/15222
18 / PRIOR FILING DATE: 1996-09-23
19 / NUMBER OF SEQ ID NOS: 23
20 / SOFTWARE: PatentIn Ver. 2.1
21 / SEQ ID NO 4
22 / LENGTH: 626
23 / TYPE: PRT
24 / ORGANISM: Arachis hypogaea
25 / FEATURE:
26 / OTHER INFORMATION: Amino Acids 25-34 are Ara H 1 binding epitope,
27 / OTHER INFORMATION: peptide 1
28 / OTHER INFORMATION: Amino Acids 48-57 are Ara H 1 binding epitope,
29 / OTHER INFORMATION: peptide 2
30 / OTHER INFORMATION: Amino Acids 65-74 are Ara H 1 binding epitope,
31 / OTHER INFORMATION: peptide 3
32 / OTHER INFORMATION: Amino Acids 89-98 are Ara H 1 binding epitope,
33 / OTHER INFORMATION: peptide 4
34 / OTHER INFORMATION: Amino Acids 97-106 are Ara H 1 binding epitope,
35 / OTHER INFORMATION: peptide 5
36 / OTHER INFORMATION: Amino Acids 107-116 are Ara H 1 binding epitope,
37 / OTHER INFORMATION: peptide 6
38 / OTHER INFORMATION: Amino Acids 123-132 are Ara H 1 binding epitope,
39 / OTHER INFORMATION: peptide 7
40 / OTHER INFORMATION: Amino Acids 134-143 are Ara H 1 binding epitope,
41 / OTHER INFORMATION: peptide 8
42 / OTHER INFORMATION: Amino Acids 143-152 are Ara H 1 binding epitope,
43 / OTHER INFORMATION: peptide 9
44 / OTHER INFORMATION: Amino Acids 294-303 are Ara H 1 binding epitope,

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Query Match	24.5%	Score 866.5	DB 4	Length 626
Best Local Similarity	34.7%	Pred. No. 8.8e-70		
Matches	213	Conservative 105	Mismatches 209	Indels 87
				Gaps 188
QY	93	ESGPRQOOY---CORCKEICEEESVYNQRPDQOYEGOCOEKCOHLEPR-----H	142	
DB	26	KSSPFOCKTENPCAGRCUGSCGEPDLKQ-----ACESKCTLEYPDRCVYDPRGH	78	
QY	143	MOTCOORC---ERR-----YEKEKKQOQKYEEQOEDEBEKYEERMKEDNKDPQR	192	
DB	79	TGTTNQRPBPBGRTRGROPDGDYDDNR--QPRREBGRNGPAGPRRERED--WRPDR--	133	
QY	193	EYEDCRRCOEOPRQOYOCORCRCEOROHQRCGLIMPORGSGSYEEGEKOSDNFY	252	
DB	134	--EDMRRRSHQ--PR-----KIPREBREG---QEWGTGSHYREETSNNPF	175	
QY	253	YPDFESLSTRFTEEGHISLVLENFYGRSKLPAALKNYLVLEANNPAFVLPHTLDAI	312	
DB	176	YFPSRRFSTRYONONGRIYVLORFOROSQOFONLONHRIYQIEAKENTLVLPGLADNI	235	
QY	313	LLVTGRGALKMIHNDRESYNLECGDVRIPAGTFYIINDNNRHLIAKELQITSTP	372	
DB	226	LVIQOGQATVYVANNNRKSFYLDGSHALRITSQFSTYILNHNQNLNRAKISMVPNTP	295	
QY	373	GOYKEFPFAGGONPEPYLSTFSKEILEALANTQAEIRGLV-----GOOR---	417	
DB	296	GOFEDEFPASSHDQSYLOEFERNLTLEAFNMEIRVLLLEBNAGCEOEERQORWST	355	
QY	418	-----EGYISASQOIRLTRDSESRRMIRRGESSRG---PYNLFNRPVYSNK	467	
DB	356	RSSENNBEVIVVSGHEHBLTKHAKS-----VSKKGSSEEDGITNPINUREBEPDLSNN	410	
QY	468	YGQAYEVKPEDYR-OLQMDVSVFANITQSGSMGPFENFTRSTKTVVYVASGEADVEMACP	526	
DB	411	FGKLFVEVPDKKNPDLQDLMMLTCEVIEGALMTPHFMSKMWIVVYVNGKTNELVAV	470	
QY	527	HLSGHGRGRCGRJREBEDV-----HYEOWKARLSKRAIIVVGVHPVYVFSGNGENLL	582	
DB	471	RKEQOQRRRREBEDDEDEBESGNSNEVRYTARLKGVGFIMPAAHPVAINNSSEHLTL-	529	
QY	583	FAFGINAONNHNFLAGREBNYTLQOIEPOMELAFAPKKEVBELENSODESIFFFGPRQ	642	
DB	530	-GFGINAEHNHRIFLAGDKNDVINDIQEKQAKLAFPGSGEOVEKLIKQKESHFVSARPO	588	

QY 643 HQOQSSRSTKQOOP 656  
 Db 589 SQSQSSPSSPEKSP 602

## RESULT 5

US-07-955-905A-24  
 ; Sequence 24, Application US/07955905A  
 ; Patent No. 5770433  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
 ; TITLE OF INVENTION: PRECURSOR  
 ; NUMBER OF SEQUENCES: 28  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/955,905A  
 ; FILING DATE: 21-JAN-1993  
 ; CLASSIFICATION: 435  
 ; INFORMATION FOR SEQ ID NO: 24:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 605 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Glycine max  
 ; FEATURE:  
 ; NAME/KEY: Protein  
 ; LOCATION: 1..605  
 ; OTHER INFORMATION: /note= "Vicilin from G. max"  
 ; US-07-955-905A-24

Query Match 24.2%; Score 853.5; DB 1; Length 605;  
 Best Local Similarity 31.4%; Pred. No. 1.3e-68;  
 Matches 194; Conservative 143; Mismatches 211; Indels 69; Gaps 15;

QY 72 YNODDPQTDCCQCCQRCRQSGSPRQOQYCCQRC-----KEICEEE--EYNRQDP 122  
 Db 27 YVEKENPKNN--KCLQSCNSERDSYRNA-CHARCNLKVKEKECEBEIEIPRPRPOHP 83  
 QY 123 QOQVEQOCQRCQNHETEPHMOTCOQRCERREYKEXKQKRYEEQOREDEKYEEMKE 182  
 Db 84 EREPOQPKKEDEDEQPRPIPFPRPQREHEHQREQEMPRKEKKGKSGSEEDD 143  
 QY 183 ENNKDPOQREYEDCRRCQEQEPQOYQCCQRCRQSGRQGGDLINPQSGSGRYEE 242  
 Db 144 EDEEDDEQFPP--RPPHOKERNEEDED--EEQRES-----EE 181  
 QY 243 GEEKO-----SDNPFYFDEBSLSTRFTEEGHISYLENFYGRSKLLRALKNRYLVLEAN 297  
 Db 182 SEDSLRHKNNKPNFLFSSNRFETILFKQYGRIRVLQRFNQRSPLQQLRLRYLLEFNSK 241  
 QY 298 PNAFVLPTHLADAILLVYTGKRGALKMIRDNRESYNLECGDVIRIPAGTFYLLINRDN 357  
 Db 242 PNTLLPNHADADYILVINGTALISLVNDDRDYSRLQSGDALRVPGGITYYVNPDN 301  
 QY 358 ERLHAKLQITSTGGYKEFPFAGQNPPEYILSTFSKEILFALNTOAERLQVL--- 413  
 Db 302 ENLRITLAIPIVNNKGRFESFFLSTEAQSYLOGFSNIIKASVDTKFEELINKVLFSRE 361  
 QY 414 -----GQOR--EGVLIASQEQIRELTDSESRMHRRGSGSRGYNLFNKRPIYSN 466  
 Db 362 EGQOQGEORLQESVIVEISKEQIALSKRASSRKIT-----SEDKPNIURSDPIYSN 417  
 QY 467 KYGQAYEVKPEEDYQLOQMDVSVFIANTQSGMNGPFENRSTKYVVVAVGADAVENACP 526  
 Db 418 KLGFKEFITPBNKQDLRLDITFLSTIVDNEGALLPFPNSKAVILVINEGDNIETLV-- 475

QY 527 HLSGRHG--RRGKRHEEEDVHYEQYKARLSREATVVPVGHVYVSSGNENILFA 584  
 Db 476 -----GLKQCOQEOQOEOPLEVRKTRALSEODIVITAGYVVV--NATSNLNFPA 526  
 QY 585 FGINANNHNFVLAGRENNVLQGLEPQAMELAFAPRKEVELPNSODESIFPGPROHQ 644  
 Db 527 IGINANNQNFVLAGSQDNVISQIPQVQELAFPGSAQAVKLLKNGEESYFVDAQPRKK 586  
 QY 645 QOQSSRSTKQOQPLVSIIL 661  
 Db 587 EBGNGRKR--GPLSSIL 601

## RESULT 6

US-07-955-905A-25  
 ; Sequence 25, Application US/07955905A  
 ; Patent No. 5770433  
 ; GENERAL INFORMATION:  
 ; APPLICANT:  
 ; TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
 ; TITLE OF INVENTION: PRECURSOR  
 ; NUMBER OF SEQUENCES: 28  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/955,905A  
 ; FILING DATE: 21-JAN-1993  
 ; CLASSIFICATION: 435  
 ; INFORMATION FOR SEQ ID NO: 25:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 571 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; ORIGINAL SOURCE:  
 ; ORGANISM: Pisum sativum  
 ; FEATURE:  
 ; NAME/KEY: Protein  
 ; LOCATION: 1..571  
 ; OTHER INFORMATION: /note= "Convicilin from P. sativum"  
 ; US-07-955-905A-25

Query Match 23.6%; Score 832.5; DB 1; Length 571;  
 Best Local Similarity 32.7%; Pred. No. 9.3e-67;  
 Matches 204; Conservative 110; Mismatches 196; Indels 113; Gaps 16;

QY 72 YNODDPQTDCCQCCQRCRQSGSPRQOQYCCQRCCEICEEENYNRQDPQOQYQOE 131  
 Db 27 YAYVDESSETRVVGQEBRGQEG-----EKEKRGEMRPSTYEKEHEE 70  
 QY 132 RCRHETEPHMOTCOQRCERREYKEXKQKQK---RYEQOREDEKYEEMKEEDNR 187  
 Db 71 EKQY-----RYQREKQKEVQPRKEHEEDEDQYEEBRRSGQRRE 114  
 QY 188 DPQOREYEDCRRCQEQEPQOYQCCQRCRQSGRQGGDLINPQSGSGRYEEQ 247  
 Db 115 DPQE-----RAFLRHEER-----TKDRRH-----QREGEERSESESQ 150  
 QY 248 SDNPFYFDEBSLSTRFTEEGHISYLENFYGRSKLLRALKNRYLVLEANPNAFVLP 307  
 Db 151 HRNPFVFKSNKFLTLENENGHIRLQRPDKSDLFENIQNRLVYERAKHTIILPQHI 210  
 QY 308 DADAILLVYTGKRGALKMIRDNRESYNLECGDVIRIPAGTFYLLINRDNNEHLIAKFLQ 367  
 Db 211 DADLILVINGKAILTVLSPNDRNSYNLERGDTIIXIPAGTISYLVQDDEDLRVDFVY 270  
 QY 368 TISTPGQYKEFPFAGQNPPEYILSTFSKEILFALNTOAERLQVL----- 413  
 Db 271 PYNRPQKFAF--GLSENKQVILRGFSKNILBASINTKTIETIEKVLBEQEKKPOQLDR 328



Qy 642 QHOOSSRS 650  
Db 479 PSEERGRRA 487

RESULT 9  
US-09-323-195A-18  
Sequence 18, Application US/09323195A  
Patent No. 6462257  
GENERAL INFORMATION:  
APPLICANT: Pullman, Gerald  
APPLICANT: Caltray, John  
APPLICANT: Perrera, Rangan  
TITLE OF INVENTION: VICTIM-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND  
FILE REFERENCE: IPST0009  
CURRENT APPLICATION NUMBER: US/09/323,195A  
CURRENT FILING DATE: 1999-06-01  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 18  
LENGTH: 448  
TYPE: PRP  
ORGANISM: Picea glauca  
US-09-323-195A-18

Query Match 21.7%; Score 765; DB 4; Length 448;  
Best Local Similarity 37.8%; Pred. No. 8, 6e-61;  
Matches 162; Conservative 89; Mismatches 154; Indels 24; Gaps 9;

Qy 232 PQGGSGRREBEKOSDNPYFDERSLSTRPTEEGHISVLNENFYGRSKLRALKNYRL 291  
Db 34 PEYLGRGRGR--EEREENPVFHSDFRTASSEAGEIRALPNFQEVSELLEGIRKPRV 92  
Qy 292 VLEANPNAFVPTHLDAIILVTGSGALKMHNDRESNINLECGDVIIRIPACTTPTL 351  
Db 93 TCEMKPNTVMPLHYIDATWILYTRKGYIAYVHONELVKRLEGGDFGVPSCHTPTL 152  
Qy 352 IRDNNERLHIAKFLQITIST-PGOYKEFPFAGONDEPYLSTFSKEILEALNTQAEIRL 410  
Db 153 VNNDHNTLRILASLVAPSTVGEYQPFVAGGRNPQIVYSAFSDVDLEAENTVOOLE 212  
Qy 411 GVLAGOOREGVIISASQEOIRLTDSESRKHHIRG--GESSR---GPNLFNKPL 463  
Db 213 RIFGKHSVILHANEQIREMR-----KRGFSAGSMSAPBHPKPFNFNQKPD 262  
Qy 464 YENKYGQAYEVKPEDYRQ--LQDMVSVFIANTIGSGMMGPFFTRSTKVVVVAAGDAVEM 523  
Db 263 FENENGRFTIAGPKVYPLDALDVGLADLNPSTAPSLNSKSTIGIVTNGEGRTEM 322  
Qy 524 ACPHLSGRHGRGRGKRHEEDVHYEYKARLSKREAIIVVPVGHVVPVSSGNENTLLF 583  
Db 323 ACPHL-GQHG--SSPRERGDDITYQRYWAKLRGTVYIVPAGHPHTEIASTNSRLQIL 379  
Qy 584 AFGINAONNHENFLAGRENVLOQIEPQAMELAFAPR--KEVERLFPNSODSIFPPGPR 642  
Db 380 WFDLNTTRNGRNGRFLAGK--NNTVLTIERIRQLSTFVNPGEIEEVLQKQKVILLRGPQR 438  
Qy 643 HOOOSSRST 651  
Db 439 RSRDEARSS 447

RESULT 10  
US-09-424-283-2  
Sequence 2, Application US/09424283  
Patent No. 6437219  
GENERAL INFORMATION:  
APPLICANT: Grimes, et al.  
TITLE OF INVENTION: Sucrose binding proteins  
FILE REFERENCE: 4630-50206  
CURRENT APPLICATION NUMBER: US/09/424,283  
CURRENT FILING DATE: 1999-11-19

PRIOR APPLICATION NUMBER: PCT/US98/10465  
PRIOR FILING DATE: 1998-05-21  
PRIOR APPLICATION NUMBER: US 60/047,568  
PRIOR FILING DATE: 1997-05-22  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 2  
LENGTH: 444  
TYPE: PRP  
ORGANISM: Glycine max  
US-09-424-283-2

Query Match 20.9%; Score 739; DB 4; Length 444;  
Best Local Similarity 34.9%; Pred. No. 1, 9e-58;  
Matches 172; Conservative 85; Mismatches 154; Indels 82; Gaps 14;

Qy 105 RCKEICEEERYYNNQRDP--QOYEOOERQORHETPRHMQTOQORCERRYEKREKQ 162  
Db 27 KCKEYVEER-----DELVTCHNQOQOQOYEGDKR--VCLQSCD--RYHMKQERE 76  
Qy 163 KRYEQOREDEKYEERKKEEDNRDPQOREYEDCRRRCQOEPRQOYOCORCREQOR 222  
Db 77 KOIQETREKKEE--ESRERE-----EQQEQ 101  
Qy 223 HGRGDDLINPQGGSGRREBEKOSDNPYFDE--KSLSTRPTEEGHISVLNENFYGRSK 281  
Db 102 H-----EQQDENPYIFEDKDFETRVTEGGIRIVLKKFTEKSK 140  
Qy 282 LRLALKNYRLVLEANPNAFVPTHLDAIILVTGSGALKMHNDRESNINLECGDVI 341  
Db 141 LLOGIENFRLAILEARHNTVSPRHPSEVYFNIKRAVLGLVSESETEKITLEPDM 200  
Qy 342 RLPACTTPTLIRDNNERLHIA--KFLQITSTPGOYKEFPFAGONDEPYLSTFSKEILE 399  
Db 201 HIPAGTEPLYVNDENDKFLAMHLPVSVSTPGKEEFPAFGGRDPESVLSAFSNVLIQ 260  
Qy 400 AALNTQAEIRLGRVLAGOOREGVIISASQEOIRLTDSESRKHHIRGSGSSRGPYNLR 459  
Db 261 AALQTPGKLENVFDQONSGITRISREOVRALA--PTKSSWMP--GGE-SKROPENIFS 316  
Qy 460 KRPLYSNKYGQAYEVKPEDYRQ--LQDMVSVFIANTIGSGMMGPFFTRSTKVVVVAAG 517  
Db 317 KRPLISNGYRLTEVGEDDEKSMQLRMLMLFTNITQRSSTIHYNSHATIALVIDG 376  
Qy 518 EADVEMACPHLSGRHGRGRGKRHEEDVHYEYKARLSKREAIIVVPVGHVVPVSSGN 577  
Db 377 RGHLDQSCPMSSRSSHSK-----HDKSSPSYHRISDLKPGWVFPVPGHPVTIASNK 431  
Qy 578 ENLLPFAFGINAQ 590  
Db 432 ENLLMICFEVNAR 444

RESULT 11  
US-07-955-905A-26  
Sequence 26, Application US/07955905A  
Patent No. 5770433  
GENERAL INFORMATION:  
APPLICANT:  
TITLE OF INVENTION: RECOMBINANT 47 AND 31 KD COCOA PROTEINS AND  
NUMBER OF SEQUENCES: 28  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/955,905A  
FILING DATE: 21-JAN-1993  
CLASSIFICATION: 435  
INFORMATION FOR SEQ ID NO: 26:  
SEQUENCE CHARACTERISTICS:

```

; LENGTH: 410 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Pisum sativum
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..410
; OTHER INFORMATION: /note= "vicillin from P. sativum"
US-07-955-905A-26

Query Match          19.9%; Score 704.5; DB 1; Length 410;
Beet Local Similarity 37.2%; Pred. No. 2,3e-55;
Matches 148; Conservative 76; Mismatches 145; Indels 29; Gaps 5;

QY 249 DNPYFDESRSLSTRTEREGHISVLENFYGRSKLRLAKNYRLVLEAPNPAFVLPHTLD 308
DB 20 ENPFIFKSNRPQTLEVENENGHIRLQKPKRSKIFENLQNTYRLLEYKSGPHLFLPQYTD 79
QY 309 ADAIILVTGGGALMHIRDNRESYNLECGDVIRIPAGTFFYLIRNDRNERLHIAKPLQT 368
DB 80 ADFILIVLSGKATLTVLKSNDNSFNLERGDAIKLPAGSIAYFARNDRNEBRVLDLAI 139
QY 369 ISTPGYKEFFPAGQNEPVLSTFSKTELEALTOAERLKGVLGQGR----- 417
DB 140 VAKPQOLQSLSTGTONQKSSLSGFSKNILEAFNTYNEELKVLLEQEQESPOHRSLLK 199
QY 418 -----EGVIISASQEQIRELTRDSESRMHIRGGSSESGPYNLFNKKPLYSNKYG 469
DB 200 DRROINEENVIYKXSRQIEELSKNAKSS-----KKSVSSESGPYNLRSRPITISNKG 255
QY 470 QAYEVKPEDYRQLQMDVSVFIANTTQSGMGPFFNTSTKVVVAVASGEADVEMACPHLS 529
DB 256 KFEFITEPKNQLOLDLIFVNSVDIKVGSLLLPYNSRAIVVTVTEGKDPVLGVR-- 313
QY 530 GRHGRRGGRKHEEEDV--HYEQYKARLSKREALIVPVGHVAVVSSGENMLLFAFGI 587
DB 314 NENQKENDKEEKEEETSKQVQLYRAKLSPGDVIVIPAGHVAJNASSDLMLI--GLGI 371
QY 588 NAOHNHENFLAGERENVLQOIEPQAMELAFAPRKEVE 625
DB 372 NAENNERNFLAGEEDNVISQVERPKELAFPOSSHEVD 409

RESULT 12
US-09-323-195A-17
; Sequence 17, Application US/09323195A
; Patent No. 6462257
; GENERAL INFORMATION:
; APPLICANT: Pullman, Gerald
; APPLICANT: Cairney, John
; APPLICANT: Perreira, Ranjan
; TITLE OF INVENTION: VICILIN-LIKE SEED STORAGE PROTEIN GENE PROMOTER AND
; TITLE OF INVENTION: METHODS OF USING THE SAME
; FILE REFERENCE: 1PST0009
; CURRENT APPLICATION NUMBER: US/09/323,195A
; CURRENT FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 17
; LENGTH: 523
; TYPE: PRT
; ORGANISM: Pisum caeda
US-09-323-195A-17

Query Match          19.7%; Score 694.5; DB 4; Length 523;
Beet Local Similarity 34.9%; Pred. No. 2,7e-54;
Matches 153; Conservative 86; Mismatches 164; Indels 35; Gaps 10;

QY 223 HGRGDDLINPQRGSGRYEGEKSDNPYFDESRSLSTRTEREGHISVLENFYGRSKL 282
DB 40 HGRG-----HGRREERREBNPYVHFSDRFRRASSDAGEIRALPNFGESBEL 86
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QY 283 LRALKNYRLVLEAPNPAFVLPHTLDADAILVTGGGALMHIRDNRESYNLECGDVIR 342
DB 87 LEGISKYKVTCTIEKRPNTVMVLPHYLDATWILYVGGRCYIAVQHONELVKRKLDEGVFG 146
QY 343 IPAGTFFYLIRNDRNERLHIAKPLQIST-PGOYKEFPAGQNEPVLSTFSKTELEA 401
DB 147 VPSGHTFLVNNDDNSLRITSLRTVSTMGSEIPEYVAGRNDEITYSAPSDVLEAA 206
QY 402 LNTQA--ERLUGVLGQOREGVIISASQEQIRELTRD-----DSERRMHIRGGSSESRGP 454
DB 207 FNTVIVARHTHPVHIERESYSM-ANEQIEMLRKGFASMSASASHPK-----P 257
QY 455 YNLFNKRPKLYSNKYGQAYEVKPEDYRQLQMDVSVFIANTTQSGMGPFFNTSTKVVV 514
DB 258 FNLROKQDFENDGRFTRPAGPNENPLDADVAVAGFCVILPGMTAPSHNTKATISAIV 317
QY 515 ASGEADVEMACPHLSGRHGRRGGRKHEEEDVHYEQYKARLSKREALIVPVGHVFPVFS 574
DB 318 TQSGRIEMACPHL-GQHG--SSRREKQDEINQYRABLRGTGYVVPAGHPITIA 374
QY 575 SGENMLLFAFGINAONHNENFLAGERENVLQOIEPQAMELAFAPR-KEYEELFNSODE 633
DB 375 CTGHELEIWMFDINTSGNERQFLAGK-YNVLTLEKEVROJISFNIPRGEELDEVLRQXD 433
QY 634 SIFFPPRQHQOQSRSRT 651
DB 434 QVILRGPMQRDRDEPRSS 451

RESULT 13
US-09-424-283-4
; Sequence 4, Application US/09424283
; Patent No. 6437219
; GENERAL INFORMATION:
; APPLICANT: Grimes, et al.
; TITLE OF INVENTION: Sucrose binding proteins
; FILE REFERENCE: 4630-50206
; CURRENT APPLICATION NUMBER: US/09/424,283
; CURRENT FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: PCT/US96/10465
; PRIOR FILING DATE: 1998-05-21
; PRIOR APPLICATION NUMBER: US 60/047,568
; PRIOR FILING DATE: 1997-05-22
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 4
; LENGTH: 409
; TYPE: PRT
; ORGANISM: Glycine max
US-09-424-283-4

Query Match          19.5%; Score 689.5; DB 4; Length 409;
Beet Local Similarity 35.8%; Pred. No. 5,3e-54;
Matches 146; Conservative 81; Mismatches 138; Indels 43; Gaps 9;

QY 179 RMKEEDNKRDP-----QOREYED-----CRRCEQEPHQOYCCORRCRQORH 223
DB 27 KLKTEVEDEDELVTCKHQCCOQOQRYTESDKRTCLQCCDSMKQEREKVBEETREKEBEH 86
QY 224 GRGDDLINPQRGSGRYEGEKSDNPYFDE-RSLSTRTEREGHISVLENFYGRSKL 282
DB 87 -----QOHEEEDENYVEEEDDFSTRVETRGGSIRVLKKTFSKSL 130
QY 283 LRALKNYRLVLEAPNPAFVLPHTLDADAILVTGGGALMHIRDNRESYNLECGDVIR 342
DB 131 LOGIENFLALILBARHTFVSPRHDSRVVLFNIKRAVLGLVBSSEKTLTEBGDMIH 190
QY 343 IPAGTFFYLIRNDRNERLHIAKPLQISTPGQYKEFPAGQNEPVLSTFSKTELEAL 402
DB 191 IPAGTFLIVVRDNEKELMLMLHI PVSTPGKFEFFPGGRDDESVLSAFSMVLAQAL 250
QY 403 NTQAEURLGVLGQGRREGVITISASQEQIRELTRDSESRMHIRGGSSESRPYNLFNKRP 462
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Db      251  CTPKGLERLFPQONEGSIFKISREVRALA-PTKSSWPF--CGG-SKAGNISKRP 306
Qy      463  LYSNKGAYAYKVEDYRQ-LQDMVSVFIANTOGSMGPFNTSTKVYVYASGEADV 521
Db      307  TFSNGYGLTEVGDDEKSWLQRLNLTFTNTITGSMSTIHNSHTATIALVMGRHL 366
Qy      522  EMACPHLSGRHGRGGRGHEEDVAYEOKARLSKREAIYVGVPH 569
Db      367  QISCPHMSSRSDSK-----HDKSSPSYHRISADLKPWFVFPVPGHP 408

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## RESULT 14

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US-07-955-905A-27
; Sequence 27, Application US/07955905A
; Patent No. 5770433
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: RECOMBINANT 47 AND 31 kD COCOA PROTEINS AND
; TITLE OF INVENTION: PRECURSOR
; NUMBER OF SEQUENCES: 28
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/955, 905A
; FILING DATE: 21-JAN-1993
; CLASSIFICATION: 435
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 421 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Phaseolus vulgaris
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..421
; OTHER INFORMATION: /note= "vicilin from P. vulgaris"
US-07-955-905A-27

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Query Match 15.8%; Score 557; DB 1; Length 421;  
Best Local Similarity 33.1%; Pred. No. 6e-42;

Matches 141; Conservative 74; Mismatches 155; Indels 56; Gaps 12;

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Qy      244  EERQSDNPYYFD-ERSLSTRFBEGHISVLENFYGRSKLRLAKNYRLVLLANPNVAFV 302
Db      30  EESQDNPFYFNDNSMNTLFFKQYGHIRVLQRFQOSKRLQNLNEDYLVFRESKPEFTL 89
Qy      303  LPTHLADADAILVTGGRGALKMIRHDSY-----NLECGDVIRI PACTFTLVLRDN 356
Db      90  LPEQAAEELLVVRSGSAILVVKPDREYFLLSDNPIRSDQKIPAGITFLVNDP 149
Qy      357  NERLHAKFLQITSTPGYKEFFPAGQNPPEYISTSKILEALNTQAEIRGLVQ-- 415
Db      150  KEDLRILQAMPVNP-QIHEFFLSSTAQSYIQEFSKILLESFNSKEEINRVLFE 208
Qy      416  --QREGVILISAQEQLRLTRDSESRRMHIRRGESSRGVYLPFNRPYISKYQAYE 473
Db      209  EGQGGVIVNIDSEKIKELSHAKSSR-----KSLSKODNTTIGEPGNLTE 255
Qy      474  VKPEPYROLQDMVSVFIANT--TQSGMGPFFVTSTKVYVYASGEADVEMACPHLSGR 531
Db      256  -----RTDNLNVLISSTIEMEGALFVPHYYSKAIYLVNVEGEAHELV----- 300
Qy      532  HGRGRGGRHHEEDVYEOVKARLSKREAIYVPGHVPVFSNGENILLAFGINQON 591
Db      301  --GPKNK-----ETLEYESYRAELSKDQVFIIPAYPAIKATSNVNT--GFGINANN 351
Qy      592  NHENFLAGRRBNVLOQI-----EPQAMELAFAAPRKVELELFSQDESIFFPGPRHQOQ 646

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Db      352  NNRRLLAGKTDNVISSIGALDQKDYLTGTFSGSGDEWKLINQSGS-YVVDAAHHQOE 410
Qy      647  SSRSTK 652
Db      411  QQKGRK 416

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## RESULT 15

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US-09-106-872A-17
; Sequence 17, Application US/09106872A
; Patent No. 6486311
; GENERAL INFORMATION:
; APPLICANT: Burks Jr., A. Wesley
; APPLICANT: Stanley, J. Steven
; APPLICANT: Cockrell, J. Gael
; APPLICANT: King, Nina E.
; APPLICANT: Sampson, Hugh A.
; APPLICANT: Helm, Ricki M.
; APPLICANT: Bannor, Gary A.
; TITLE OF INVENTION: Peanut Allergens and Methods
; FILE REFERENCE: HS 103 CIP
; CURRENT APPLICATION NUMBER: US/09/106, 872A
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: PCT/US96/15222
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 17
; LENGTH: 335
; TYPE: PRT
; ORGANISM: Arachis hypogaea
US-09-106-872A-17

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Query Match 13.5%; Score 476; DB 4; Length 335;  
Best Local Similarity 34.8%; Pred. No. 9.5e-35;

Matches 117; Conservative 55; Mismatches 114; Indels 50; Gaps 9;

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Qy      369  ISTPGYKEFPFAGQNPPEYISTSKILEALNTQAEIRGLV-----GQQ 416
Db      3  VNTPGQFEDFPASRDQSYLGFSRNTLEAFNAEPNEIRVYLEENAGQOBERGQR 62
Qy      417  R-----EGVILISAQEQLRLTRDSESRRMHIRRGESSRG-----PVNLPNKRPL 463
Db      63  RSTSSSENREGVIVKSKREHVELTKHAKS-----VSKKGSSEBDITPILNRGEFD 117
Qy      464  YSNKYGAYEYKPDYR-QLQDMVSVFIANTOGSMGPFNTSTKVYVYASGEADV 522
Db      118  LSNNGKLFYVKPKNPQLQDLMVLTVEIKEGALMDPHFNSKAMVIVVNNKGTGNLE 177
Qy      523  MACPHLSGRHGRGGRGHEEDV-----HYEOVKARLSKREAIYVPGHVPVFSNGE 578
Db      178  LVAIRKQOQGRHHEEDDEDEEESNREVRVYTLREGDVFIIPAHVPAINASSEL 237
Qy      579  NLLPFAFGINAKNNHENFLAGRBNVLOQIEPQAMELAFAAPRKVELELFSQDESTFP 638
Db      238  HLL--GFGIAENNNHIFLAGDKDQVITDIEKQADLAFPSGGEQVRLINKQESHFVS 295
Qy      639  GPROHQOQS-----RSTKQO-----PLVSTL 661
Db      296  AQGQSOSPSSEPKESPEKEDQEBENQGGKPLSLITL 331

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Search completed: February 15, 2005, 18:03:01  
Job time : 42.742 secs